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Jennifer C. Sedlachek
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ExxonMobil
Refining & Supply

January 28, 2005

Mr. Jim Tischler
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

RE: Former Exxon RAS #7-0276/1400 Farmers Lane, Santa Rosa, California.

Dear Mr. Tischler:

Attached for your review and comment is a copy of the letter report entitled ***Corrective Action Plan,*** dated January 28, 2005, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Petaluma, California, and details evaluation activities for the subject site.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek
Project Manager

Attachment: ERI's Corrective Action Plan, dated January 28, 2005.

cc: w/ attachment
Mr. Paul Lowenthal, City of Santa Rosa Fire Department
Mr. Joseph A. Aldridge, Valero Energy Corporation

w/o attachment
Mr. Robert A. Saur, Environmental Resolutions, Inc.

CORRECTIVE ACTION PLAN

for

Former Exxon Service Station 7-0276

1400 Farmers Lane

Santa Rosa, California

ERI Job 203405.R23

January 28, 2005

Prepared for

ExxonMobil Refining & Supply – Global Remediation

4096 Piedmont Avenue #194

Oakland, California 94611

ENVIRONMENTAL RESOLUTIONS, INC.

CORRECTIVE ACTION PLAN

for

Former Exxon Service Station 7-0276

1400 Farmer's Lane

Santa Rosa, California

ERI Job No. 203405.R23

Prepared for

ExxonMobil Refining & Supply – Global Remediation

4096 Piedmont Avenue #194

Oakland, California 94611

by

Environmental Resolutions, Inc.

Robert A. Saur

Project Manager

John B. Bobbitt

R.G. 4313

REGISTERED GEOLOGIST JOHN BAILEY BOBBITT No 4313 STATE OF CALIFORNIA

4-30-06

January 28, 2005

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Lake Forest • Petaluma • Seattle • Phoenix

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CORRECTIVE ACTION PLAN

for

Former Exxon Service Station 7-0276
1400 Farmer's Lane
Santa Rosa, California

For ExxonMobil Refining & Supply – Global Remediation

1.0 INTRODUCTION

At the request of ExxonMobil Oil Corporation (ExxonMobil), Environmental Resolutions, Inc. (ERI) has prepared this Corrective Action Plan (CAP) for the former Exxon Service Station 7-0276, 1400 Farmer's Lane, Santa Rosa, California. The CAP summarizes environmental work performed to date, assesses impacts to the subsurface, evaluates remedial alternatives, and presents an approach for remediating soil and groundwater at this site. The CAP was prepared in response to letter from the California Regional Water Quality Control Board, North Coast Region (Regional Board) dated November 30, 2004 (Appendix A).

2.0 SITE DESCRIPTION

2.1 Setting

The site is located on the southeastern corner of Farmer's Lane and Hoen Frontage Road in Santa Rosa, California, as shown on the Site Vicinity Map (Plate 1). The locations of the existing underground storage tanks (USTs), dispenser islands, groundwater monitoring wells, and other select site features are shown on the Generalized Site Plan (Plate 2). Properties in the vicinity of the site are occupied by commercial developments and California Route 12 and associated ramps.

The site currently has 13 on-site groundwater monitoring wells (MW1 through MW9, MW4A, MW5A, MW16, and MW17), seven off-site groundwater monitoring wells (MW10 through MW15 and MW18), and one groundwater recovery well (RW1A), and four UST observation wells (TP1 through TP4). The well locations are depicted on Plate 2.

The site has been operating as a service station since at least the early 1970s. The site was initially operated by Texaco. The site operated as an Exxon station from August 1988 to June 2000, at which time the property and associated UST system were transferred to Valero Refining Company. The site currently operates as a Valero station.

Local topography slopes towards the north and west from Taylor Mountain toward Matanzas Creek. Matanzas Creek, a tributary of Santa Rosa Creek and the Russian River, is located approximately 0.3 mile north of the site and flows toward the west.

2.2 Environmental Assessment

Environmental assessment activities were initiated at the site in 1988 by Texaco oil Company. ExxonMobil initiated environmental assessment activities at the site in 1998. Historic site assessment activities are summarized in the following.

June 1988	Wells MW1 through MW6 installed. Groundwater monitoring and sampling initiated.
August 1988	Wells MW7 through MW12 installed.
April 1990	Wells MW13 and MW14 installed.
November 1990	Product lines and dispensers replaced; approximately 30 cubic yards of soil removed from beneath the north dispenser island.
February 1991	Well RW1 installed.
March 1991	Constant-discharge groundwater pumping test conducted.
November 1995	Air sparge (AS) and groundwater recovery remediation system started.
September 1997	AS and groundwater recovery remediation system shut down.
August 1998	Two-day SVE pilot test conducted.
June 2000	Well MW15 installed; soil boring B17 advanced.
November 2000	Sensitive receptor survey (SRS) performed.
October 2001	Direct-push soil borings GP1 through GP6 advanced in the area near well MW10 (off-site); borings GP7 and GP8 advanced on site.
November 2001	Soil boring B16 advanced on site.
December 2001	Soil boring B18 advanced on site.
August 2003	Groundwater recovery well RW1 destroyed and replaced with groundwater recovery well RW1A.
October 2003	Wells MW16 and MW17 installed.
October 2003	24-hour dual-phase extraction (DPE) pilot test conducted.
October 2004	Well MW18 installed.

2.3 Environmental Remediation

A summary of historic site remedial efforts are summarized in the following.

December 1990	Excavation of approximately 30 yards of hydrocarbon-impacted soil from beneath the northern dispenser island and excavation of approximately 30 yards of hydrocarbon-impacted soil from the new product line trenches.
November 1995 - September 1997	Operation of the AS and groundwater recovery remediation system.

2.4 Feasibility Testing

A summary of historic feasibility testing are summarized in the following.

August 1998	SVE pilot testing, conducted for 48 hours, removed approximately 0.015 pound of hydrocarbons.
October 2003	DPE pilot testing, conducted for 24 hours, removed approximately 0.022 pound of hydrocarbons.
December 2004	Natural attenuation parameter investigation conducted.

3.0 SITE CONDITIONS

3.1 Chemicals of Concern

Cumulative results of laboratory analyses of groundwater samples (Tables 1A and 1B) and soil (Tables 2A and 2B) indicate that gasoline-range and diesel-range fuel hydrocarbons and related constituents are present in soil and groundwater underlying the site. ERI has identified the following constituents as chemicals of concern (COCs): diesel hydrocarbons (quantitated as total petroleum hydrocarbons as diesel [TPHd]); gasoline hydrocarbons (quantitated as total petroleum hydrocarbons as gasoline [TPHg]); benzene, toluene, ethylbenzene, and xylenes (BTEX); and methyl tertiary butyl ether (MTBE). Select physical, chemical, and toxicological properties of these COCs are summarized in Appendix B. The aerobic decay rates for the COCs in saturated soil and unsaturated soil are also provided in Appendix B.

Cumulative groundwater monitoring and sampling data indicates that the highest historic concentration of TPHg in on-site and off-site wells was 85,000 ug/L in well MW3 on January 19, 1991, and 77,000 ug/L in well MW10 on April 30 1992, respectively. The highest historic concentration of benzene in on-site and off-site wells was 2,500 ug/L in well MW3 on April 23, 1991, and 29,000 ug/L in well MW10 on

April 30, 1992, respectively. The highest historic concentration of MTBE in on-site and off-site wells was 15,000 ug/L in well MW3 on March 26, 2001, and 3,960 ug/L in well MW15 on March 26, 2002.

Results of the most recent groundwater monitoring and sampling event (December 15, 2004) indicated that the maximum concentration of TPHg in on-site and off-site wells is 4,380 ug/L in well MW3, and 9,120 ug/L in well MW10, respectively. The maximum concentration of benzene in on-site and off-site wells is 86.0 ug/L in well MW3, and 705 ug/L in well MW10, respectively. The maximum concentration of MTBE in on-site and off-site wells is 43.2 ug/L in Well MW3, and 13.6 ug/L in well MW15, respectively.

Based on the current concentration of the COCs, it appears that benzene, toluene, ethylbenzene, and MTBE exceed water quality goals established by the North Coast Regional Board. Comparison of COC representative concentrations and COC current concentrations to groundwater cleanup objectives are shown in Table 3.

3.2 Site Geology and Hydrogeology

The site is located at the northeast border of the Santa Rosa Plain groundwater basin, just south of the Santa Rosa Valley groundwater basin. Based on the results of previous assessment activities, the site and vicinity is underlain by a heterogeneous mixture of sand, silt, clay, and gravel from ground surface to 60 feet below ground surface (bgs), the maximum depth explored. A layer of finer-grained sediment (silt with sand and sandy silty clay), observed in MW16 and MW17, appears to retard vertical migration of dissolved hydrocarbons. Boring logs are provided in Appendix C.

Groundwater monitoring wells MW1 through MW15 are screened above 20 feet bgs. Groundwater monitoring wells MW16, MW17, and MW18 are screened below 40 feet, in deeper sediments, to evaluate and monitor the vertical extent of dissolved hydrocarbons. The depth to groundwater beneath and in the vicinity of the site has historically ranged between approximately 0 to 11 feet bgs; the average depth to groundwater is approximately 22 feet bgs. The predominant groundwater flow direction is towards the northwest, with a hydraulic gradient of approximately 0.03. A rose diagram depicting historic groundwater flow directions and gradient for the first quarter 2003 through fourth quarter 2004 monitoring and sampling events is provided on Plate 3.

Using the calculated hydraulic conductivities of 1.07 and 0.00005 m/day from the March 1991 groundwater pumping test, and an average hydraulic gradient of 0.03, ERI calculated a seepage velocity of 3.7X10^-5 cm/sec (0.1 ft/day) and 1.7 $X10^{-9}$ cm/sec (4.9$X10^{-6}$ ft/day).

3.3 Distribution of Residual Petroleum Hydrocarbons in Soil

Cumulative depths to water measurements (Table 1A) indicate that the depth to groundwater has ranged from 0 to 11 feet. The average depth to groundwater for all measurements is approximately 2.2 feet bgs, and the depth to groundwater has been less than 5 feet bgs in 96% of all measurements. These data show that the vadose zone is generally shallow, and that former and existing primary sources of fuel hydrocarbons (the UST systems and product piping) are most often submerged in groundwater.

Cumulative results of soil samples analyses (Tables 2A and 2B; Plate 4) indicate that residual fuel hydrocarbons were identified in soil or sediment near well MW3 during installation in 1988, and in soil underlying the former northern dispenser island during UST and piping replacement in November 1990. Soil underlying the former dispenser islands was removed by excavation; therefore, this potential secondary source of dissolved hydrocarbons was also removed. Residual hydrocarbons have also been identified in off-site, direct-push boring GP5 at depths of 4 and 5 feet bgs; however, depth to water measurements in nearby well MW10 indicate that the depth interval between 4 to 5 feet bgs has been historically submerged since monitoring was initiated in 1988.

3.4 Occurrence of Liquid-Phase Hydrocarbons on Groundwater and In Saturated Soil

Liquid-phase gasoline hydrocarbons (LPH, as sheen or measurable thicknesses) have been reported intermittently between March 1993 and June 2003 in wells MW3, MW5, and MW10. During the intermittent occurrences of LPH, the depths to groundwater in these wells ranged from 0 (artesian conditions) to approximately 3.5 feet bgs. Therefore, adsorption of LPH to sediment within this depth interval most likely occurred, and soil within this interval may represent a secondary source of dissolved-phase hydrocarbons in groundwater. Separate phase fluids have also been observed intermittently in well MW6 from September 1988 through July 1995; however, the chemical characteristics and concentrations of TPHg and BTEX in this well are not consistent with the presence of separate phase fuel hydrocarbons, and ERI concludes that the observed separate phase fluids were not associated with gasoline.

3.5 Distribution and Mass of Dissolved-Phase Petroleum Hydrocarbons in Groundwater

Cumulative results of laboratory analyses of groundwater samples collected from groundwater monitoring wells are provided in Table 1A and Table 1B, and results of laboratory analysis of grab groundwater samples collected from soil borings are provided in Appendix D. Variations in groundwater elevations and dissolved-phase concentrations in select wells are depicted on Graphs 1 through 5.

Based on the spatial distribution, historical concentration variations, and chemical characteristics, ERI has identified two distinct modes of occurrence of dissolved-phase gasoline hydrocarbon and related constituents:

(1) An occurrence of dissolved-phase gasoline hydrocarbons characterized by elevated TPHg and BTEX concentrations, and MTBE concentrations generally less than 100 ug/L. This occurrence has been present since installation of the initial monitoring wells in 1988. Historically, dissolved gasoline hydrocarbons with these characteristics have historically occurred in areas downgradient from the original USTs and dispensers (wells MW1, MW3, MW5, and MW8). This occurrence has been adequately delineated downgradient by wells MW12, MW13, MW14, and MW15; and upgradient and crossgradient by other wells. These dissolved-phase hydrocarbons are delineated vertically by wells MW16 and MW17. Dissolved-phase hydrocarbons with similar chemical characteristics have also been present in off-site well MW10, located approximately 200 feet northwest of the site (downgradient) across the traffic intersection. Dissolved-phase hydrocarbons identified in this area were adequately delineated downgradient by direct-push borings GP1, GP2, and GP3, and are vertically delineated by well MW18.

(2) An occurrence of dissolved-phase gasoline hydrocarbons characterized by elevated MTBE concentrations exceeding 1,000 ug/L. MTBE concentrations associated with this occurrence showed a distinct increase beginning in or before 1999. Concentrations increased from initial concentrations (less than 100 ug/L in wells MW1 and MW5, and less than 1,000 ug/L in well MW3) to peak concentrations (exceeding 1,000 ug/L in wells MW1, MW5, and MW15; and 10,000 ug/L in well MW3) in late 2000 and 2001, and showed steady decreases after peak concentrations (Graphs 1 through 5). The timing of peak concentrations occurred progressively from wells MW5 to MW3 to MW15. BTEX concentrations showed steady decreasing trends during this time interval.

ERI concludes that the dissolved-phase hydrocarbons near off-site well MW10 most likely result from transport in shallow preferential pathways (utility trenches, roadbase, etc.) rather than advective transport in deeper saturated sediments, based on the following:

- The spatial and temporal variations in concentrations and chemical characteristics.
- The timing of the appearance of liquid-phase hydrocarbons (as sheen or measurable thickness) in on site wells MW3 and MW5 and off site well MW10.
- The low to non-detectable concentrations of BTEX and TPHg in wells MW13 and MW15, located between well MW10 and potential source areas.
- The shallow depth to groundwater, which restricts vertical migration of LPH.

MTBE was generally not present in reportable concentrations in samples from downgradient well MW10 from late 2000 through mid-2004; however, low concentrations began to show up in mid-2004.

Isoconcentration maps showing the lateral extent of dissolved-phase TPHd, TPHg, benzene, and MTBE for the most recent monitoring and sampling event are shown as Plates 5 through 8, respectively. These maps show that:

- The current TPHg, benzene, and MTBE concentrations occur predominantly on site (centered on wells MW3 and MW8) and underneath Hoen Frontage road, and are adequately delineated downgradient by wells MW8, MW12, MW13, and MW15.
- A separate area of elevated TPHg and benzene concentrations occurs across the traffic intersection northwest of the site, near well MW10.

Based on the current distribution of dissolved TPHd, TPHg, benzene and MTBE, ERI estimated the mass of those constituents dissolved in groundwater (Appendix E). The results of the calculations are summarized in Table 4, and indicate:

- Approximately 4.22 lb of dissolved-phase TPHd are present on-site and under Hoen Frontage Road; approximately 1.9 lb of TPHd is present off site, in the area near well MW10.
- Approximately 5.20 lb of dissolved-phase TPHg are present on-site and under Hoen Frontage Road; approximately 17.9 lb of TPHg is present off site in the area near well MW10.
- Approximately 0.42 lb of dissolved-phase MTBE is present on-site and under Hoen Frontage Road; approximately 0.02 lb of MTBE is present off site in the area near well MW10.
- Approximately 0.10 lb of dissolved-phase benzene is present on-site and under Hoen Frontage Road; approximately 1.4 lb of benzene is present off site in the area near well MW10.

To evaluate the stability of dissolved-phase benzene and MTBE in on-site areas, ERI generated a map showing the temporal variations for specific benzene and MTBE isoconcentration contours using the results of the first quarter groundwater monitoring and sampling events from 1991 to 2004 (Plates 9 and 10, respectively). Based on the position of the respective isoconcentration contours ERI concludes that the areal extent of the on-site benzene and MTBE concentrations are decreasing.

3.6 Source Areas

The distribution of residual and dissolved gasoline hydrocarbons in soil and groundwater indicate the following:

- The USTs and dispensers appear to have been the primary source of dissolved hydrocarbons in groundwater; these primary sources have been abated.
- Because of the shallow depth to groundwater underlying the site, the vertical extent of vadose sediment is limited, and thus residual hydrocarbons in vadose soil do not currently represent a secondary source of dissolved hydrocarbons to groundwater.
- Soil containing residual hydrocarbons in vadose or saturated soil detected beneath the northern dispenser islands was removed by overexcavation.
- It is possible that LPH intermittently detected between March 1993 and September 1999 in monitoring wells MW3, MW5, and MW10 adsorbed to sediment during seasonal groundwater fluctuations; these adsorbed hydrocarbons may represent a potential secondary source of dissolved hydrocarbons to groundwater in restricted locations.

3.7 Sensitive Receptors

In November 2000, ERI performed an SRS, which included a comprehensive well search within a one-quarter mile radius of the site and a field visit. ERI updated the SRS in March 2004 and will conduct additional updates annually. Results of the SRS, including location and details of water supply wells in the vicinity of the site and utility vault and storm drain locations beneath and in the vicinity of the site are provided in Appendix F. Results of the SRS indicate that the closest water supply well to the site is located approximately 1,125 feet north-northwest of the site. The closest surface water to the site is Matanzas Creek, located 1,386 feet north of the site. In addition, standing water occurs seasonally in a topographic low approximately 100 feet north of well MW10.

3.8 Current and Potential Beneficial Uses of Surface and Groundwater

According to the Regional Board's Basin Plan, the subject site is located in the Santa Rosa Subarea of the Middle Russian River Hydrologic Area of the Russian River Hydrologic Unit. The current and potential beneficial uses of surface and groundwater for the Santa Rosa subarea are provided in Appendix G. The area has been designated as having potential municipal supply use, and as having existing agricultural, industrial, irrigation, and other uses.

4.0 FEASIBILITY STUDIES

4.1 Natural Attenuation Parameter Investigation

4.1.1 Fieldwork and Methods

During the fourth quarter 2004 monitoring event conducted on December 15, 2004, ERI evaluated four categories of NAIs: physical properties, nutrients, electron acceptors (reactants), and by-products. ERI monitored and recorded the physical parameters of temperature, pH, conductivity, and oxidation-reduction potential (ORP) in 17 groundwater monitoring wells using calibrated meters. ERI measured and recorded the ferrous iron concentration (a by-product) using a colorimetric analysis kit; and measured and recorded dissolved oxygen and carbon dioxide (electron acceptors) using a meter and titration kit, respectively. ERI also collected groundwater samples from nine monitoring wells for laboratory analyses of select nutrients, electron acceptors and by-products. The laboratory analysis report and Chain-of-Custody record are included as Appendix H. The results of field measurements, field analyses, and laboratory analysis are presented in Table 5 and shown on Plate 11.

4.1.2 Laboratory Analysis

ERI collected and submitted groundwater samples collected from nine groundwater monitoring wells to California state-certified laboratories, under Chain-of-Custody protocol. The samples were analyzed for:

- Nutrients, including ammonia-nitrogen, ortho-phosphate, phosphorous, total nitrogen, and total Kjeldahl nitrogen (TKN).
- Potential electron acceptors, including nitrate (NO_3^-) and sulfate (SO_4^{2-}).
- By-products, including methane (CH_4) and sulfide.

4.1.3 Results

ERI compared the results of the NAI analyses conducted on samples collected from monitoring wells in areas with groundwater containing relatively high concentrations of dissolved-phase hydrocarbons to results of analyses from samples collected from wells in areas with lower concentrations. ERI considered groundwater monitoring wells MW1, MW3, MW5, MW8, and MW10 to be inside the area of dissolved-phase hydrocarbons of the upper water-bearing zone, and wells MW2, MW4, MW6, MW7, MW9, MW12, MW13, and MW14 to be outside the area of dissolved-phase hydrocarbons of the upper water-bearing zone. Monitoring wells MW16 through MW18 are screened in deeper sediments.

4.1.3.1 Physical Parameters

The temperature, pH, ORP, and conductivity measured by ERI in the field are acceptable for the natural degradation of petroleum hydrocarbons. ORP concentrations are lowest in wells with the highest concentration of dissolved hydrocarbons (MW3, MW5, MW8, MW10, and MW18) and highest in wells in which COCs have not been present historically (MW4, MW6, MW7, MW9, MW13, MW14, and MW17). The spatial relationship of ORP to the dissolved-phase plume indicates that natural aerobic degradation has occurred.

4.1.3.2 Nutrients

Ortho-phosphate, nitrogen, and phosphorous are present in sufficient concentrations to support biodegradation.

4.1.3.3 Electron Acceptors

The dissolved oxygen concentrations ranged from 0.85 to 3.8 milligrams per L (mg/L), and were generally higher in wells outside the area of dissolved-phase hydrocarbons than in the wells inside the area of dissolved-phase hydrocarbons. The minimum value (0.85 mg/L was measured in well MW3), was measured in the area of greatest dissolved-phase concentrations. The range of values measured in other areas (up to 3 .8 mg/L) are generally considered conducive for aerobic microbial processes. The occurrence of low concentrations in the area of highest COC concentrations and higher concentrations in areas of no or lesser impact indicates that dissolved oxygen is consumed during biodegradation. The concentrations of nitrate are highest in wells outside the area of dissolved-phase hydrocarbons, and are generally below reporting limits inside the area of dissolved-phase hydrocarbons. In addition, sulfate concentrations are higher in wells outside the area of dissolved-phase hydrocarbons of upper and lower water-bearing units, than inside the area of dissolved-phase hydrocarbons. These spatial relationships may indicate that anaerobic microbial processes have also occurred.

4.1.3.4 By-Products

Carbon dioxide concentrations are generally highest in wells with the highest concentrations of dissolved hydrocarbons, indicating that this by-product in a result of biodegradation. In addition, it appears that wells with the highest concentrations of dissolved hydrocarbons have the highest concentrations of ferrous iron and methane, indicating that these by-products are the result of biodegradation. Concentrations of sulfide are predominantly below laboratory reporting limits, indicating that sulfide is not a product of biodegradation at this site.

4.1.3.5 Estimated Attenuation Rates

ERI calculated the decay rate for dissolved benzene, toluene, ethylbenzene and MTBE for wells in which current concentrations (as reported during the fourth quarter 2004 monitoring event) exceed the water quality objective for groundwater used for domestic or municipal supply, as listed in Table 3-2 of the Regional Board's Basin Plan or the primary maximum contaminant level (MCL): wells MW3, MW5, and MW10 for benzene; well MW10 for benzene, toluene and ethylbenzene; and wells MW3, MW5, and MW8 for MTBE. Using the hydrographs for the respective wells, ERI identified the concentration trends for benzene and MTBE. Using these trends, ERI calculated the decay constants assuming first-order exponential decay. The benzene decay constants calculated based on the concentration trends observed at the site indicate that benzene concentrations will reach the water quality objective (1 ug/L) in approximately 20.3 years in well MW3, 8.3 year in well MW5, and 29.9 years in well MW10. The calculations for toluene indicate that toluene in well MW10 will reach the primary MCL (150 ug/L) in approximately 4 years. The calculations for ethylbenzene indicate that toluene in well MW10 will reach the primary MCL (300 ug/L) in approximately 8.5 years. The MTBE decay constants calculated based on the concentration trends observed at the site indicate that MTBE concentrations will reach the water quality objective (13 ug/L) in approximately 0.8 year in well MW3 and 2.9 years in well MW8.

4.2 Pumping Test

The results of a constant-rate groundwater pumping test conducted in March 1991, using well RW1 as the extraction well, indicate that the calculated transmissivity ranges from 2.25 to 10.75 m^3/day, the calculated conductivity ranges from 1.07 to 0.00005 m/day, and the calculated storativity ranges from 0.0019 to 0.0039.

4.3 Soil Vapor Extraction Test

ERI conducted a SVE test in August 1998; the test was conducted using wells MW3 and RW1 as extraction wells. Prior to the test, well RW1 was pumped to attempt to lower the groundwater elevation and expose previously saturated sediment of the induced vacuum. The results of the SVE test (ERI, March 15, 1999) indicate:

- Depth to water measurements in observation wells indicate that groundwater extraction from well RW1 did not lower the groundwater surface enough to expose well casing screens in the observation wells.
- With an applied vacuum of 85 inches of water on wells MW3 and RW1, a measurable vacuum was not induced in the observation wells, and vapor flow rates were negligible.

4.4 Dual-Phase Extraction Test

The results of a 24-hour the DPE test conducted in October 2003 (ERI, May 21, 2004) indicate the following:

- An induced vacuum of 22" Hg produced an effective vacuum radius of influence (ROI) of approximately 32 feet.
- ERI estimates a sustainable liquid-phase flow rate during DPE of 1.6 gpm, an associated downgradient capture zone for a single groundwater recovery well of up to approximately 190 feet, and a lateral extent of the capture zone up to approximately 597 feet.
- ERI estimates that approximately 0.02 pound of gasoline hydrocarbons (as TPHg) and 0.001 pound of MTBE were removed as vapor phase during the test; approximately 0.002 pound of TPHg and 0.005 pound of MTBE were removed as dissolved-phase during the 24-hour DPE test.

5.0 EVALUATION OF REMEDIAL ALTERNATIVES

5.1 Groundwater Cleanup Objectives

ERI proposes to apply the water quality objectives for groundwater used for domestic or municipal supply as listed in Table 3-2 of the Regional Board's Basin Plan (Appendix G) as clean-up objectives. These objectives are consistent with the existing and potential beneficial uses of groundwater and surface water in the area. Comparison of COC representative concentrations to groundwater cleanup objectives are shown in Table 3.

5.2 Targets for Remedial Action

Based on the cumulative results of assessment activities and feasibility studies, current and historical COC concentrations and distributions, and cleanup objectives, ERI has identified the following areas and COCs as targets for remediation:

- Dissolved benzene and MTBE in shallow groundwater underlying the site and Hoen Frontage Road. The current maximum benzene concentration in this area is 86 ug/L. The current maximum MTBE concentration in this area is 116 ug/L.
- Dissolved benzene and gasoline-range hydrocarbons (quantitated as TPHg) in shallow groundwater in the area downgradient from the site, near well MW10. The current benzene concentration in well MW10 is 705 ug/l, and current TPHg concentration is 9,120 ug/L; MTBE concentrations have historically been below detection limits, although low concentrations (below 16 ug/L) have been present in the last three monitoring events. Based on the current dissolved

benzene concentration and the estimated time necessary to reach water quality goals, ERI also considers possible adsorbed hydrocarbons in shallow vadose and saturated soil (to approximately 5 feet bgs) near off-site well MW10 to be a potential remedial target.

5.3 Remedial Alternatives for On-site Groundwater

For on-site soil and groundwater, ERI evaluated four remedial alternatives for this CAP: 1) soil vapor extraction; 2) groundwater extraction and treatment; 3) dual-phase extraction; and 4) monitored natural attenuation (MNA). Estimated operation times required for the respective alternatives to result in groundwater that meets water quality goals, and the estimated associated costs, are summarized in Table 6.

5.3.1 Soil Vapor Extraction

SVE involves extracting soil vapor, including vapor-phase petroleum hydrocarbons, from vadose sediment by inducing a vacuum at the extraction points. SVE is generally considered an effective technology for remediating residual petroleum hydrocarbon-impacted soil, and has an indirect affect on groundwater by abating a continued secondary source of dissolved hydrocarbons to groundwater.

ERI estimated the costs for design, installation, and operation and maintenance of an SVE system at the site (Table 6) based on our previous experience with similar sites. However, based on the following observations, ERI does not consider SVE an appropriate remedial technology for the site, and did not estimate site-specific costs:

- Cumulative monitoring data indicate groundwater occurs at shallow depths and the corresponding vadose zone is generally thin (average thickness less than 2.2 feet).
- The former and existing primary sources of dissolved-phase hydrocarbons to groundwater are most often submerged by groundwater.
- The shallow depth to groundwater has limited the downward migration of LPH and the resulting mass of residual hydrocarbons in shallow groundwater-saturated is soil therefore very small.
- SVE systems do not perform well in shallow soil due to short-circuiting within the shallow soil-vapor flow regime.

5.3.2 Groundwater Extraction and Treatment

GET involves pumping impacted groundwater from one or more groundwater extraction wells, treatment of groundwater aboveground, and discharge into the storm sewer under a National Pollutant Discharge Elimination System (NPDES) permit, or into the sanitary sewer under a local agency permit. GET generally results in COC mass removal and migration control of hydrocarbon-impacted groundwater.

Target COCs at this site include benzene and MTBE. MTBE concentrations have shown sharply declining trends since peak concentrations in 2000 and 2001. Benzene has shown declining concentration trends, but at slower rates due to the higher sorption coefficient for benzene in saturated soil.

ERI estimated that a GET system will require operation for approximately five years to lower existing dissolved COC concentrations on site to water quality goals, based on the following:

- The estimated area of impacted saturated sediment and volume of impacted groundwater within the sediment underlying the site and Hoen Frontage Road;
- That removal of approximately 30 pore-space volumes of groundwater is generally considered necessary to successfully remediate COCs with sorption coefficients of BTEX compounds; and
- The calculated sustainable pumping rate based on the groundwater pumping test results.

ERI estimated the costs for design, permitting, construction and installation, and operation and maintenance of a GET system based on the following:

- Estimated design costs based on ERI's previous experience with similar systems, and site-specific features;
- The estimated capital costs for equipment and materials, including: pumps, conveyance piping and manifolds, abatement equipment; and a remediation compound;
- The estimated construction costs for the remediation compound and containment, an additional extraction well, conveyance piping trenching; GET system components and monitoring equipment;
- Routine start up and routine operation and maintenance costs for approximately five years.

Based on these criteria and associated costs, ERI estimates that design, installation and operation and maintenance of a GET system on site will cost approximately $475,000.

5.3.3 Dual-Phase Extraction

High-vacuum DPE uses simultaneous extraction of soil vapor and groundwater from the same extraction well using high vacuum. Groundwater is extracted from a well through a down-hole hose or pipe, resulting in migration control and dissolved-phase mass removal. The depressed water level also exposes more previously-saturated sediments to high-vacuum SVE, which allows removal of vapor-phase hydrocarbons and reduces residual hydrocarbon concentrations. A high-vacuum DPE system generates a greater radius of vacuum influence around a DPE well than conventional SVE or low-vacuum DPE systems. The use of DPE is also generally considered to enhance natural degradation of adsorbed hydrocarbons in vadose sediment; however, ERI estimates that the mass of adsorbed LPH at this site is very small due to the historically shallow groundwater. Using the calculated effective vacuum ROI of approximately 32 feet (based on DPE pilot test results), approximately 10 DPE wells will be required to effectively remediate the area of the dissolved-phase benzene and MTBE impact on site and underlying Hoen Frontage Road.

ERI estimates that a high-vacuum DPE system will require operation for approximately four years to lower existing dissolved COC concentrations on site to water quality goals, based on the following:

- The estimated area of impacted saturated sediment and volume of impacted groundwater within the sediment underlying the site and Hoen Frontage Road.
- That removal of approximately 30 pore-space volumes of groundwater is generally considered necessary to successfully remediate COCs with sorption coefficients of BTEX compounds.
- The calculated sustainable groundwater removal rate based on the groundwater pumping test results.

ERI estimated the costs for design, permitting, construction and installation, and operation and maintenance of a DPE system based on the following:

- Estimated design costs based on ERI's previous experience with similar DPE systems, and site-specific features.
- The estimated capital costs for equipment and materials, including: conveyance piping and manifolds, abatement equipment; and a remediation compound.
- The estimated construction costs for the remediation compound and containment, 10 DPE wells; conveyance piping trenching; DPE system components and monitoring equipment.
- Routine start up and routine operation and maintenance costs for approximately four years.

Based on these criteria and associated costs, ERI estimates that design, installation and operation and maintenance of a GET system on site will cost approximately $555,000.

5.3.4 Natural Attenuation

Natural attenuation includes physical processes such as dispersion, advection, and diffusion; biological processes such as oxidation and reduction; and chemical processes such as sorption. Based on the results of the natural attenuation parameter investigation, natural attenuation processes are occurring at the site and viable remedial alternative for the site.

ERI estimates that natural attenuation will require approximately 20 years for existing dissolved benzene concentrations on site to reach water quality goals, and approximately three years for existing dissolved MTBE concentrations on site to reach water quality goals, based on decay rates observed in existing monitoring wells.

ERI estimated the costs for implementing MNA design based on the following:

- Lateral and vertical delineation are adequate; additional monitoring wells are not required;
- Groundwater monitoring of onsite wells will occur initially on a quarterly basis for approximately two years to verify natural attenuation is continuing to occur; thereafter, monitoring will occur on a semi-annual or annual schedule, and the number of wells monitored will be reduced as appropriate.

Based on these criteria and associated costs, ERI estimates that implementation of MNA to address on site dissolved benzene and MTBE will cost approximately $165,000.

5.4 Remedial Alternatives for Off-Site Soil and Groundwater

The second target area for remediation includes the northwest corner of the intersection of the California Route 12 off ramp and Farmer's Lane, approximately 200 to 250 feet west-northwest of the former on site source areas, near off-site well MW10. This area is currently undeveloped and is currently within the California Department of Transportation (CalTrans) right-of-way. It is ERI understands that additional highway construction in this area is pending. To ERI's knowledge, there is no source of electrical power, sanitary sewer discharge, or storm drain on or immediately adjacent to this area. The target area has no buildings or surface pavement, and surface runoff collects in a topographic low approximately 100 feet north of well MW10 during rainy periods seasons.

The lack of electrical power and access to sewer discharge, and restrictions related to CalTrans ownership and potential pending construction, restrict viable remedial options for this area. In ERI's opinion, construction of long-term or semi-permanent structures (e.g., a remediation compound,

secondary containment) is not feasible. Therefore, for this area, ERI evaluated remedial technologies that do not require construction of semi-permanent structures. For and groundwater and soil in this off-site area, ERI evaluated three remedial alternatives for this CAP: 1) limited excavation and MNA; 2) short-duration DPE (source removal) and MNA; and 3) monitored natural attenuation. Estimated costs and operation times required for the respective methods to result in groundwater that meets water quality goals, and the estimated associated costs, are summarized in Table 6.

5.4.1 Excavation and Natural Attenuation

The results of laboratory analyses of soil samples collected from this area (Table 2; Plate 4) indicate that residual gasoline hydrocarbons (TPHg) and benzene were present in soil samples collected from boring GP5. In addition, the previous occurrence of sheen and LPH in well MW10 and seasonal groundwater fluctuation may have resulted in adsorbed hydrocarbons to shallow soil in the area, which may provide a secondary source of dissolved-phase hydrocarbons to groundwater. ERI therefore evaluated excavation of soil and subsequent MNA as a remedial alternative for this area.

Based on the distribution of soil with reported detections of residual hydrocarbons (Plate 4; boring GP5, well MW10), ERI conservatively estimates that an area approximately 20 feet by 25 feet is underlain by soil that may contain residual hydrocarbons. Based on the detection of residual hydrocarbons at depths of up to five feet bgs, ERI estimates the depth of excavation to be five feet, resulting in approximately 95 cubic yards of soil. However, because of the shallow depth to groundwater, dewatering of the excavation will be required. ERI estimates that dewatering will produce approximately 60,000 to 70,000 gallons of groundwater that will require transportation and off site disposal. In additional, the proximity of the excavation to the California Route 12 off ramp may require the use of shoring to prevent potential caving of the roadway. Implementation of this alternative is contingent on acquisition of access and authorization by CalTrans.

After removal of the possible secondary source, ERI estimates that the existing dissolved benzene concentration would decay to water quality goals in approximately 20 years.

ERI estimated the costs for permitting, excavation, dewatering and soil and water disposal based on the following:

- Excavation of an area approximately 20 feet by 25 feet, to a depth of 5 feet, resulting in approximately 95 cubic yards (approximately 140 tons) of soil; backfilling and compaction to CalTrans specifications.

- Generation, storage, and disposal of approximately 140 tons of soil and 60,000 to 70,000 gallons of impacted groundwater.
- MNA for approximately 20 years.

Based on these criteria and associated costs, ERI estimates that implementation of excavation and MNA to address the off site target area will cost approximately $300,000.

5.4.2 Short-Duration DPE (Source Removal) and Natural Attenuation

ERI also evaluated short-duration DPE to lower the groundwater level and reduce concentrations of residual hydrocarbons in the impacted area that may provide a secondary source, followed by natural attenuation. Because of the lack of electrical power and discharge points, use of DPE would require a portable, self-contained DPE unit and storage of the removed and treated groundwater pending transportation and disposal. To optimize the short-duration source removal effort, ERI considered a DPE system with two extraction points: existing well MW10, and an additional extraction point to be installed. Implementation of this alternative is contingent on acquisition of access and authorization by CalTrans.

After removal of the possible secondary source, ERI estimates that the existing dissolved benzene concentration would decay to water quality goals in approximately 20 years.

ERI estimated the costs for this alternative based on the following:

- Successful acquisition of access and encroachment permits from CalTrans.
- Installation of one additional extraction well.
- Construction of temporary, above-ground conveyance piping and security fencing, and running a portable, self-contained DPE unit for approximately three to four months.
- Storage and batch disposal of extracted groundwater; ERI estimates that approximately 1,100,000 gallons of groundwater would be generated, treated, stored temporarily on site, and transported off site for disposal.
- MNA for approximately 20 years.

Based on these criteria and associated costs, ERI estimates that implementation of short-duration DPE and MNA to address the off-site target area will cost approximately $260,000.

5.4.3 Natural Attenuation

ERI estimates that natural attenuation in the off site area will require approximately 30 years for existing dissolved benzene concentrations on site to reach water quality goals, approximately four years for existing dissolved toluene concentrations to reach water quality goals, and approximately eight years for existing dissolved ethylbenzene concentrations to reach water quality goals, based on decay rates observed in existing monitoring wells.

ERI estimated the costs for implementing MNA design based on the following:

- One additional monitoring well will be installed downgradient from MW10 to monitor the lateral extent of dissolved benzene;
- Groundwater monitoring of off site wells will occur initially on a quarterly basis for approximately two years to verify natural attenuation is continuing to occur; thereafter, monitoring will occur on a semi-annual or annual schedule.

Based on these criteria and associated costs, ERI estimates that implementation of MNA to address off-site dissolved benzene, toluene and ethylbenzene will cost approximately $237,000.

6.0 PROPOSED CORRECTIVE ACTION

ERI evaluated the identified remedial alternatives based on viability, cost effectiveness, and estimated time for attainment of water-quality goals. To evaluate the viability, ERI considered the following site conditions:

- The dissolved TPHg and BTEX, and MTBE occurrences are adequately delineated laterally and vertically. Concentration trends in on-site monitoring wells show steady decreasing trends. TPHg and benzene concentrations in off-site well MW10 (approximately 200 feet downgradient from the site) also show decreasing trends.
- Groundwater underlying the site and adjacent areas is generally very shallow (the average depth to groundwater is 2.2 feet bgs); residual hydrocarbons in shallow vadose sediment do not represent a secondary source of dissolved-phase hydrocarbons to groundwater.
- Adsorbed gasoline hydrocarbons near wells MW3, MW5, and MW10 may represent a secondary source. However, dissolved TPHg, benzene, and MTBE concentrations in on-site wells show decreasing trends and the areal extent of the on-site area underlain by groundwater with COC constituents in excess of water quality goals is steadily decreasing.

- Conditions in the vadose and saturated sediment are conducive for natural attenuation, and natural attenuation is most likely occurring, as indicated by the results of the natural attenuation feasibility test. Based on the current concentrations and estimated decay rates, groundwater on site will reach groundwater cleanup objectives in approximately 20 years, and groundwater in the off-site area will reach water quality goals in approximately 30 years.
- The anticipated land use of the site and the area downgradient from the site is not expected to change; the off-site area near well MW10 will most likely be covered by freeway construction.

Based on the demonstrated viability, cost effectiveness, time required to reach water quality goals, and anticipated land usage and sensitive receptors, ERI concludes that monitored natural attenuation is the preferred corrective action for both the on-site and off-site areas.

7.0 LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for ExxonMobil, and any reliance on this report by third parties shall be at such party's sole risk.

8.0 REFERENCES

Environmental Resolutions, Inc. (ERI). March 15, 1999. Feasibility Study (Soil Vapor Extraction Test), Former Exxon Service Station 7-0276, 1400 Farmers Lane, Santa Rosa, California.

Environmental Resolutions, Inc. (ERI). May 21, 2004. High-Vacuum Dual-Phase Extraction Pilot Test, Former Exxon Service Station 7-0276, 1400 Farmers Lane, Santa Rosa, California.

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California
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Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
			feet			ug/L						
MW1	06/22/88	NLPH	3.10	198.29	---	42,000	---	---	1,800	total BTEX	---	---
(201.39)	09/02/88	NLPH	4.74	196.65	---	---	---	---	---	---	---	---
	01/26/89	NLPH	2.02	199.37	---	280	---	---	13	total BTEX	---	---
	02/18/90	NLPH	1.87	199.52	---	---	---	---	---	---	---	---
	03/13/90	NLPH	1.91	199.48	---	---	---	---	---	---	---	---
	03/27/89	NLPH	1.67	199.72	---	---	---	---	---	---	---	---
	04/25/89	NLPH	2.13	199.26	---	120	---	---	9	total BTEX	---	---
	07/26/89	NLPH	2.97	198.42	---	86	---	---	11	total BTEX	---	---
	10/24/89	NLPH	2.19	199.20	---	220	---	---	18	total BTEX	---	---
	12/18/89	NLPH	2.69	198.70	---	---	---	---	---	---	---	---
	01/26/90	NLPH	2.24	199.15	---	95	---	---	9	total BTEX	---	---
	04/19/90	NLPH	2.59	198.80	---	57	---	---	3	total BTEX	---	---
	07/26/90	NLPH	---	---	---	67	---	---	5	<0.3	<0.3	<0.6
	10/11/90	NLPH	---	---	---	88	---	---	10	<0.3	<0.3	0.8
	04/23/91	NLPH	---	---	---	<50	---	---	2.0	<0.5	<0.5	<0.5
	07/25/91	NLPH	---	---	---	88	---	---	5.1	0.6	<0.5	0.5
	10/03/91	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/20/92	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	04/30/92	NLPH	---	---	---	<50	---	---	3.9	1.8	0.8	<0.5
	11/02/92	NLPH	---	---	---	<50	---	---	3.2	1.4	<0.5	<0.5
	12/07/92	NLPH	---	---	---	<50	---	---	2.8	<0.5	<0.5	<0.5
	03/29/93	NLPH	---	---	---	<50	---	---	2.1	1.5	1.8	6
	06/16/93	NLPH	---	---	---	<50	---	---	2.2	<0.5	<0.5	<0.5
	07/26/93	NLPH	---	---	---	61	---	---	8.4	1.1	1.7	2.4
	01/19/94	NLPH	---	---	---	350	---	---	29	0.82	6.1	2.1
	07/25/94	NLPH	---	---	---	100	---	---	4.2	1.5	3.7	9.1
	01/26/95	NLPH	---	---	<56	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/26/95	NLPH	---	---	61	<50	27,000d	---	1.5	<0.5	<0.5	<0.5
	01/18/96	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/16/97	NLPH	2.90	198.49	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	04/21/97	NLPH	3.15	198.24	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	07/09/97	NLPH	3.17	198.22	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	10/27/97	NLPH	2.51	198.88	---	---	---	---	---	---	---	---
	03/25/98	NLPH	1.26	200.13	---	<50	---	69	<0.5	<0.5	0.86	1.2
	06/11/98	NLPH	1.45	199.94	---	<50	100	---	<0.5	<0.5	<0.5	<0.5
(201.51)	09/10/98	NLPH	2.06	199.45	---	<50	95	---	<0.5	<0.5	<0.5	<0.5
	12/15/98	NLPH	1.99	199.52	---	<50	92	---	<0.5	<0.5	<0.5	<0.5
	03/09/99	NLPH	1.22	200.29	---	<50	110	---	<0.5	<0.5	<0.5	<0.5
	06/28/99	NLPH	1.89	199.62	---	<50	28	---	<0.5	<0.5	<0.5	<0.5
	09/21/99	NLPH	2.07	199.44	---	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/27/99	NLPH	2.31	199.20	---	<50	54	---	<0.5	<0.5	<0.5	<0.5
	03/27/00	NLPH	1.51	200.00	---	<50	62	---	<0.5	<0.5	<0.5	<0.5
	06/13/00	NLPH	2.10	199.18	---	<50	160	140	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transferred to Valero Refining Company										
(201.28)	09/21/00	NLPH	2.10	199.18	---	<50	180	180	<0.5	<0.5	<0.5	<0.5
	12/27/00	NLPH	2.29	198.99	---	<50	370	380	2.8	1.7	<0.5	<0.5
	03/26/01	NLPH	1.76	199.52	---	<50	1,200	1,300	3.9	0.82	0.75	2.17
	06/29/01	NLPH	1.91	199.37	---	<50	2,100	1,200	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	2.33	198.95	---	54	2,300	2,400	3.7	<2.5	<2.5	<2.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	1.26	200.02	60i	<50	1,900	2,000	<0.5	<0.5	<0.5	<0.5
(201.28)	03/26/02	NLPH	1.55	199.73	<50.0	749	912	1,300	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	1.79	199.49	<52 k	268	335	268	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	1.88	199.40	98	151	188	197	<0.5	<0.5	<0.5	<0.5
	12/31/02	NLPH	1.21	200.07	<50	108	138	134	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	1.50	199.78	<50	59.0	64.5	45.9	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	1.58	199.70	<50	<50.0	26.5	31.0	<0.50	<0.5	0.7	<0.5
	09/09/03	NLPH	1.79	199.49	<50	<50.0	20.5	24.2	<0.50	<0.5	<0.5	<0.5
	12/01/03	NLPH	1.88	199.40	<50	<50.0	10.6	9.30	0.50	<0.5	2.6	0.8
	03/23/04	NLPH	1.61	199.67	<50	<50.0	---	10.9	<0.50	0.6	<0.5	<0.5
	06/16/04	NLPH	1.96	199.32	54	<50.0	5.5	5.3	<0.50	<0.5	<0.5	<0.5
	09/15/04r	NLPH	2.14	199.14	<50	<50.0	---	3.00	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**2.12**	**199.16**	**62**	**<50.0**	**---**	**2.90**	**<0.50**	**0.5**	**<0.5**	**<0.5**
MW2	06/22/88	NLPH	4.6	196.91	---	ND	---	---	ND	ND	ND	ND
(201.51)	09/02/88	NLPH	4.74	196.77	---	---	---	---	---	---	---	---
	01/26/89	NLPH	4.43	197.08	---	ND	---	---	ND	ND	ND	ND
	03/27/89	NLPH	3.02	198.49	---	---	---	---	---	---	---	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date	<----	feet	---->	<----			ug/L				---->
MW2 (cont.)	04/25/89	NLPH	3.54	197.97	---	ND	---	---	ND	ND	ND	ND
(201.51)	07/26/89	NLPH	4.48	197.03	---	ND	---	---	ND	ND	ND	ND
	10/24/89	NLPH	3.85	197.66	---	ND	---	---	ND	ND	ND	ND
	12/18/89	NLPH	4.32	197.19	---	---	---	---	---	---	---	---
	01/26/90	NLPH	3.88	197.63	---	ND	---	---	ND	ND	ND	ND
	02/18/90	NLPH	3.40	198.11	---	---	---	---	---	---	---	---
	03/13/90	NLPH	3.51	198.00	---	---	---	---	---	---	---	---
	04/19/90	NLPH	4.14	197.13	---	ND	---	---	ND	ND	ND	ND
	07/26/90	NLPH	---	---	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	10/11/90	NLPH	---	---	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	04/23/91	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/25/91	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	10/03/91	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/20/92	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	04/30/92	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	11/02/92	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	12/07/92	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	03/29/93	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/26/93	NLPH	---	---	---	<50	---	---	1.6	<0.5	0.9	2.8
	01/19/94	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/25/94	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/26/95	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/26/95	NLPH	---	---	330	78	---	---	<0.5	<0.5	<0.5	0.53
	01/18/96	NLPH	---	---	56	<50	<10,000	---	<0.5	<0.5	<0.5	<0.5
	01/16/97	NLPH	3.25	198.26	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	04/21/97	NLPH	3.48	198.03	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	07/09/97	NLPH	4.07	197.44	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	10/27/97	NLPH	4.12	197.39	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	03/25/98	NLPH	2.47	199.04	---	---	---	---	---	---	---	---
	06/11/98	NLPH	2.81	198.70	---	<50	---	4.4	<0.5	<0.5	<0.5	<0.5
	09/10/98	NLPH	3.52	197.90	---	<50	<2.5	---	<0.5	<0.5	<0.5	1.1
(201.42)	12/15/98	NLPH	3.09	198.33	87	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	03/09/99	NLPH	2.48	198.94	---	---	---	---	---	---	---	---
	6/28/99a	NLPH	3.35	198.07	---	---	---	---	---	---	---	---
	09/21/99	NLPH	3.54	197.88	---	---	---	---	---	---	---	---
	12/27/99	NLPH	3.91	197.51	<50	<50	3.22	---	<0.5	<0.5	<0.5	1.44
	03/27/00	NLPH	2.91	198.51	---	---	---	---	---	---	---	---
	06/13/00	NLPH	3.31	198.11	---	---	---	---	---	---	---	---
	06/16/00	Property transferred to Valero Refining Company			<50	<50	<2	---	<0.5	0.68	<0.5	<0.5
	09/21/00	NLPH	3.67	197.75	82	<50	12	---	<.05	0.55	<.05	0.64
	12/27/00	NLPH	3.79	197.63	60e	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	3.24	198.18	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	3.58	197.84	52	<50	7.4	10	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	3.97	197.45	<50	<50	1,900	2,100	<0.5	<0.5	<0.5	<0.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	2.42	199.00	56i	<50	430	420	<0.5	<0.5	<0.5	<0.5
(201.37)	03/26/02	NLPH	3.31	198.06	<50.0	<50.0	3.60	4.5	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	3.40	197.97	71 k	<50	54.8	40.8	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	3.54	197.83	54	<50.0	23.0	26.1	<0.5	<0.5	<0.5	0.7
	12/31/02	NLPH	2.11	199.26	<50	<50.0	13.0	12.9	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	3.03	198.34	<50	<50.0	5.1	3.10	<0.50	<0.5	<0.5	0.8
	06/05/03	NLPH	3.07	198.30	<50	<50.0	4.6	8.20	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	3.38	197.99	<50	<50.0	3.0	3.30	<0.50	<0.5	<0.5	<0.5
	12/01/03	NLPH	3.52	197.85	<50	<50.0	5.1	4.80	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	3.08	198.29	<50	<50.0	---	3.50	<0.50	1.3	<0.5	<0.5
	06/16/04	NLPH	3.60	197.77	<50	<50.0	2.3	2.5	<0.50	<0.5	<0.5	<0.5
	09/15/04r	NLPH	3.75	197.62	<50	<50.0	---	2.30	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**3.37**	**197.91**	**<50**	**<50.0**	**---**	**3.40**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW3	06/22/88	NLPH	0.70	198.54	---	42,000	---	---	1,800	total BTEX	---	---
(199.24)	09/02/88	NLPH	2.37	196.87	---	---	---	---	---	---	---	---
	01/26/89	NLPH	0.74	198.50	---	35,000	---	---	10,000	total BTEX	---	---
	03/27/89	NLPH	0.00	199.24	---	---	---	---	---	---	---	---
	04/25/89	NLPH	6.60	192.64	---	39,000	---	---	14,000	total BTEX	---	---
	07/26/89	NLPH	0.68	198.56	---	21,000	---	---	6,400	total BTEX	---	---
	10/24/89	NLPH	---	---	---	33,000	---	---	11,000	total BTEX	---	---
	12/18/89	NLPH	0.27	198.97	---	---	---	---	---	---	---	---
	01/26/90	NLPH	0.05	199.19	---	29,000	---	---	13,000	total BTEX	---	---
	02/18/90	NLPH	0.00	199.24	---	---	---	---	---	---	---	---
	03/13/90	NLPH	0.00	199.24	---	---	---	---	---	---	---	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date		feet				ug/L					
MW3 (cont.)	04/19/90	NLPH	0.28	198.96	---	8,820	---	---	25,000	total BTEX	---	---
(199.24)	07/26/90	NLPH	0.30	198.94	---	20,000	---	---	760	1,100	370	1,600
	10/11/90	NLPH	0.48	198.76	---	32,000	---	---	2,400	3,200	810	3,800
	04/23/91	NLPH	0.16	199.08	---	58,000	---	---	2,500	5,300	1,100	7,500
	07/25/91	NLPH	0.93	198.31	---	37,000	---	---	1,500	2,400	960	4,900
	10/03/91	NLPH	0.88	198.36	---	22,000	---	---	920	1,800	770	3,300
	01/20/92	NLPH	1.20	198.04	---	27,000	---	---	770	2,900	570	3,400
	04/30/92	NLPH	0.14	199.1	---	61,000	---	---	2,400	3,000	2,300	5,700
	11/02/92	NLPH	0.75	198.49	---	20,000	---	---	1,000	610	560	2,200
	12/07/92	NLPH	0.72	198.52	---	34,000	---	---	1,700	1,400	850	4,700
	03/29/93	Sheen	0.00	199.24	---	---	---	---	---	---	---	---
	07/26/93	NLPH	0.02	199.22	---	43,000	---	---	2,100	3,300	1,100	4,900
	08/24/93	Sheen	0.10	199.14	---	---	---	---	---	---	---	---
	09/22/93	NLPH	0.15	199.09	---	---	---	---	---	---	---	---
	10/06/93	Sheen	0.35	198.89	---	---	---	---	---	---	---	---
	11/08/93	Sheen	0.30	198.94	---	---	---	---	---	---	---	---
	12/07/93	Sheen	0.01	199.23	---	---	---	---	---	---	---	---
	01/19/94	NLPH	0.21	199.03	---	85,000	---	---	2,100	4,000	1,500	6,200
	07/25/94	NLPH	0.26	198.98	---	26,000	---	---	1,300	1,800	700	3,200
	01/26/95	Sheen	0.10	199.14	<500	34,000	---	---	1,000	1,000	840	3,200
	07/26/95	LPH	0.43	198.81	---	---	---	---	---	---	---	---
	01/18/96	NLPH	3.50	195.74	---	23,000	---	---	360	370	280	1,800
	01/16/97	NLPH	3.58	195.66	---	6,900	<600	---	77	120	56	1,900
	04/21/97	NLPH	3.37	195.87	---	13,000	480	170	82	220	320	3,400
	07/09/97	NLPH	3.48	195.76	---	9,100	<300	---	53	120	270	1,400
	10/27/97	NLPH	1.15	198.09	---	20,000	520	---	780	280	290	1,500
	03/25/98	NLPH	g	g	---	3,200	---	210	39	33	170	180
	06/11/98	NLPH	0.02	199.22	---	15,000	640	---	810	340	710	2,100
	09/10/98	NLPH	0.25	198.99	2,700	13,000	500	---	570	220	670	1,200
	12/15/98	NLPH	0.39	198.85	1,300	13,000	510	---	760	420	880	2,100
	03/09/99	NLPH	0.08	199.16	2,000	12,000	1,100	---	560	610	850	2,700
	06/28/99	NLPH	0.32	198.92	4,890	12,500	674	---	494	172	944	904
	09/21/99	Sheen	0.34	198.90	1,680b	9,630	668	---	384	136	761	554
	12/27/99	NLPH	0.85	198.39	920	11,000	1,100	---	510	320	1,100	914
	03/27/00	NLPH	0.32	198.92	1,700	8,500	2,600	---	300	210	940	875
	06/13/00	NLPH	0.25	198.99	1,200	7,700	2,000	1,300	370	160	940	350
	06/16/00	Property transferred to Valero Refining Company										
	09/26/00	NLPH	0.35	198.89	1,000	4,900	2,200	1,800	290	90	670	180
	12/27/00	NLPH	0.77	198.47	680e	7,600	9,200	8,700	300	180	650	335
	03/26/01	NLPH	0.35	198.89	1,100	6,500	14,000	15,000	190	190	510	475
	06/29/01	NLPH	0.33	198.91	830	9,200	11,000	7,500	250	150	930	188.6
	09/24/01	NLPH	0.81	198.43	1000i	5,300	10,000	11,000	190	57	370	57
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	0.25	-0.25	850i	6,400	2,400	2,600	150	120	530	302
(199.21)	03/26/02	NLPH	0.55	198.66	1,090	7,870	1,500	2,134	230	230	708	678
	06/24/02	NLPH	0.40	198.81	1,360 k	5,890	788	772	191	74.0	450	125
	09/23/02	NLPH	0.43	198.78	870	5810	574	260	192	60.0	400	50.0
	12/31/02	NLPH	0.25	198.96	1,160	5,040	408	380	164	93.0	426	184
	03/28/03	NLPH	0.49	198.72	1,780	578	52.3	264	19.4	11.7	46.6	27.2
	06/05/03	NLPH	0.34	198.87	660	1690l	357	492	164	60.0	174	86.2
	09/09/03	NLPH	0.30	198.91	1,090	1,320	389	374	115	40.8	333	54.4
	12/01/03	NLPH	0.60	198.61	1,210	5,030	324	260.1	114	51.5	296	78.8
	03/23/04	NLPH	0.60	198.61	356	4,850	---	84.4	82.9	45.7	148	48.3
	06/16/04	NLPH	0.47	198.74	1,080	9,620	72.7	256	290	101	1,010	141
	09/15/04r	NLPH	0.46	198.75	<50	9,260	---	57.2	154	62.8	513	66.8
	12/15/04	**NLPH**	**0.52**	**198.69**	**1,110**	**4,380**	**---**	**43.2**	**86.0**	**55.6**	**225**	**114**
MW4	06/22/88	NLPH	3.96	199.75	---	ND	---	---	ND	ND	ND	ND
(203.71)	09/02/88	NLPH	5.79	197.92	---	---	---	---	---	---	---	---
	01/26/89	NLPH	3.60	200.11	---	ND	---	---	ND	ND	ND	ND
	03/27/89	NLPH	2.46	201.25	---	---	---	---	---	---	---	---
	04/25/89	NLPH	2.68	201.03	---	ND	---	---	ND	ND	ND	ND
	07/26/89	NLPH	3.94	199.77	---	ND	---	---	ND	ND	ND	ND
	10/24/89	NLPH	2.64	201.07	---	ND	---	---	ND	ND	ND	ND
	12/18/89	NLPH	3.05	200.66	---	---	---	---	---	---	---	---
	01/26/90	NLPH	2.67	201.04	---	ND	---	---	ND	ND	ND	ND
	02/18/90	NLPH	2.43	201.28	---	---	---	---	---	---	---	---
	03/13/90	NLPH	2.54	201.17	---	---	---	---	---	---	---	---
	04/19/90	NLPH	3.34	200.37	---	ND	---	---	ND	ND	ND	ND

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date	<-----	feet	----->	<-----			ug/L	----->			
MW4 (cont.)	07/26/90	—	—	—	—	<1	—	—	<0.3	<0.3	<0.3	<0.6
(203.71)	10/11/90	—	—	—	—	<1	—	—	<0.3	<0.3	<0.3	<0.6
	04/23/91	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	07/25/91	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	10/03/91	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/20/92	—	—	—	—	260	—	—	8.3	25	7.1	32
	04/30/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	11/02/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	12/07/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	03/29/93	—	—	—	—	<50	—	—	<0.5	0.6	<0.5	<0.5
	07/26/93	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/19/94	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	07/25/94	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/26/95	—	—	—	<50	<50	—	—	<0.5	<0.5	<0.5	<0.5
	07/26/95	—	—	—	50	<50	<10,000	—	<0.5	<0.5	<0.5	<0.5
	01/18/96	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/16/97	NLPH	2.50	201.21	—	<50	<30	—	<0.5	<0.5	<0.5	<0.5
	04/21/97	NLPH	3.26	200.45	—	<50	<30	—	<0.5	<0.5	<0.5	<0.5
	07/09/97	NLPH	3.67	200.04	—	<50	<30	—	<0.5	<0.5	<0.5	<0.5
	10/27/97	NLPH	3.31	200.40	—	—	—		—	—	—	—
	03/25/98	NLPH	2.33	201.38	—	<50	—	<2.0	<0.5	<0.5	<0.5	<0.5
	06/11/98	NLPH	2.52	201.19	—	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
(203.68)	09/10/98	NLPH	2.94	200.74	74	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
	12/15/98	NLPH	2.71	200.97	<50	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
	03/09/99	NLPH	2.32	201.36	<50	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
	06/28/99	NLPH	2.71	200.97	<50	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
	09/21/99	NLPH	2.74	200.94	<50	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
	12/27/99	NLPH	2.96	200.72	<100	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	03/27/00	NLPH	3.15	200.53	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	06/13/00	NLPH	2.81	200.87	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transeerred to Valero Reining Company										
	09/21/00	NLPH	2.99	200.69	<50	<50	<2	—	<0.5	0.56	<0.5	<0.5
	12/27/00	NLPH	3.08	200.60	<50e	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	2.60	201.08	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	2.47	201.21	120	<250	33,000	21,000	17	<2.5	<2.5	14
	09/24/01	NLPH	3.21	200.47	52i	<50	6.1	6	<0.5	<0.5	<0.5	<0.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	2.23	201.45	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
(203.64)	03/26/02	NLPH	2.41	201.23	<50.0	<50.0	<2.00	0.9	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	2.63	201.01	92 k	<50	0.8	<0.50	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	2.42	201.22	81	<50.0	<0.5	—	<0.5	<0.5	<0.5	<0.5
	12/31/02	NLPH	2.10	201.54	<50	<50.0	<0.5	—	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	2.47	201.17	<50	<50.0	<0.5	—	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	2.53	201.11	<50	<50.0	<0.5	—	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	2.62	201.02	<50	<50.0	<0.5	—	<0.50	<0.5	<0.5	<0.5
	12/01/03	NLPH	2.52	201.12	133	<50.0	<0.5	—	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	2.50	201.14	<50	<50.0	—	<0.50	<0.50	0.5	<0.5	<0.5
	06/16/04	NLPH	2.78	200.86	<50	<50.0	—	<0.50	<0.50	<0.5	<0.5	<0.5
	09/15/04r	NLPH	2.81	200.83	<50	<50.0	—	<0.50	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**2.66**	**200.98**	**<50**	**<50.0**	**—**	**<0.50**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW5	06/22/88	NLPH	1.06	199.56	—	20,000	—	—	7,900	total BTEX	—	—
(200.62)	09/02/88	NLPH	2.96	197.66	—	—	—	—	—	—	—	—
	01/26/89	NLPH	0.84	199.78	—	11,000	—	—	3,000	total BTEX	—	—
	03/27/89	NLPH	0.29	200.33	—	—	—	—	—	—	—	—
	04/25/89	NLPH	0.17	200.45	—	6,000	—	—	1,400	total BTEX	—	—
	07/26/89	NLPH	1.20	199.42	—	9,300	—	—	4,100	total BTEX	—	—
	10/24/89	NLPH	0.99	199.63	—	11,000	—	—	3,700	total BTEX	—	—
	12/18/89	NLPH	0.46	200.16	—	—	—	—	—	—	—	—
	01/26/90	NLPH	0.26	200.36	—	1,000	—	—	440	total BTEX	—	—
	02/18/90	NLPH	0.00	200.62	—	—	—	—	—	—	—	—
	03/13/90	NLPH	0.00	200.62	—	—	—	—	—	—	—	—
	04/19/90	NLPH	0.68	199.94	—	3,900	—	—	1,610	total BTEX	—	—
	07/26/90	NLPH	0.95	199.67	—	5,200	—	—	55	240	250	800
	10/11/90	NLPH	0.59	200.03	—	3,300	—	—	44	140	230	420
	04/23/91	NLPH	0.70	199.92	—	16,000	—	—	160	860	190	1,900
	07/25/91	NLPH	1.60	199.02	—	20,000	—	—	150	780	850	2,400
	10/03/91	NLPH	1.52	199.10	—	4,400	—	—	42	46	160	390
	01/20/92	NLPH	1.58	199.04	—	3,200	—	—	45	150	220	500

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1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date		feet				ug/L					
MW5 (cont.)	04/30/92	NLPH	0.37	200.25	---	16,000	---	---	270	1,100	1,700	3,900
(200.62)	11/02/92	NLPH	1.35	199.27	---	450	---	---	5.1	1.7	35	5.4
	12/07/92	NLPH	1.00	199.62	---	90	---	---	0.9	2	7.3	16
	03/29/93	NLPH	0.34	200.28	---	1,100	---	---	7.7	68	120	240
	07/26/93	NLPH	0.46	200.16	---	9,100	---	---	75	230	870	1,100
	08/24/93	NLPH	0.55	200.07	---	---	---	---	---	---	---	---
	09/22/93	NLPH	0.62	200.00	---	---	---	---	---	---	---	---
	10/06/93	NLPH	0.74	199.88	---	---	---	---	---	---	---	---
	11/08/93	NLPH	0.78	199.84	---	---	---	---	---	---	---	---
	12/07/93	NLPH	0.52	200.10	---	---	---	---	---	---	---	---
	01/19/94	Sheen	0.63	199.99	---	8,300	---	---	63	290	470	910
	07/25/94	NLPH	0.88	199.74	---	1,900	---	---	22	16	170	67
	01/26/95	Sheen	0.52	200.10	120,000d	2,400	120,000d	---	15	53	180	180
	07/26/95	LPH	0.56	200.06	---	---	---	---	---	---	---	---
	01/18/96	NLPH	0.00	200.62	---	1,500	---	---	24	5.1	12	7.4
	01/16/97	NLPH	0.47	200.15	---	3,200	380	---	58	39	190	160
	04/21/97	NLPH	0.81	199.81	---	1,700	95	31	2	5.7	36	32
	07/09/97	NLPH	0.70	199.92	---	870	61	---	<0.5	4.5	16	21
	10/27/97	NLPH	0.75	199.87	---	---	---	---	---	---	---	---
	03/25/98	NLPH	0.43	200.19	---	<50	62	---	<0.5	<0.5	<0.5	<0.5
	06/11/98	NLPH	g	g	---	60	8.7	---	0.75	0.7	3.1	2.4
	09/10/98	NLPH	0.26	200.33	5,700	3,200	160	---	<10	<10	76	22
(200.59)	12/15/98	NLPH	0.19	200.4	820	2,000	220	---	<5.0	12	130	74
	03/09/99	NLPH	0.45	200.14	<50	<50	91	---	<0.5	<0.5	<0.5	<0.5
	06/28/99	NLPH	0.20	200.39	4,870	4,160	149	---	46	<10	131	34.2
	09/21/99	Sheen	0.38	200.21	2,390b	4,200	68	---	<10	17.4	148	32
	12/27/99	NLPH	1.51	199.08	4,000	4,200	1,000	---	11	5.2	140	31.7
	03/27/00	NLPH	0.00	200.59	2,800	3,000	890	---	26	3.8	120	30
	06/13/00	NLPH	0.21	200.38	410	1,500	580	540	<2.5	<2.5	94	18
	06/16/00	Property transferred to Valero Refining Company										
	09/26/00	NLPH	0.30	200.29	560	1,800	2,500	2,200	<2.5	3.2	75	15
	12/27/00	NLPH	0.45	200.14	460e	2,600	9,700	8,700	<2.5	4.2	91	42.1
	03/26/01	NLPH	0.00	200.59	720	2,900	4,600	4,400	<2.5	4.2	100	57.6
	06/29/01	NLPH	0.09	200.5	460	2,800	5,600	3,700	<0.5	5.8	53	18.6
	09/24/01	NLPH	0.43	200.16	780i	1,600	750	840	25	3.7	28	12
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	0.48	200.11	300i	1,400	1,500	1,300	26	14	38	39
(200.60)	03/26/02	NLPH	0.00	200.60	351	382	79.5	108	2.50	0.80	5.70	4.20
	06/24/02	NLPH	0.00	200.60	94 k	443	109	63.2	1.5	2.7	16.1	6.3
	09/23/02	NLPH	0.08	200.52	201	760	45.1	48.1	<0.5	2.6	6.9	6.7
	12/31/02	NLPH	0.00	200.60	481	340	51.8	54.9	0.9	1.4	5.7	4.6
	03/28/03	NLPH	0.00	200.60	308	1,120	37.8	22.2	11.6	1.9	19.1	11.1
	06/05/03	Sheen	0.00	200.60	202	995	30.0	24.4	13.0	2.6	10.3	5.4
	09/09/03	NLPH	0.10	200.50	501	963	10.9	11.2	4.60	1.5	5.4	4.3
	12/01/04	NLPH	0.60	200.00	---	---	---		---	---	---	---
	12/02/03	---	---	---	614	1,380	116	114	7.60	2.0	20.0	11.6
	03/23/04	NLPH	0.00	200.60	384p	1,150	---	6.50	8.10	0.9	2.0	1.9
	06/16/04	NLPH	0.40	200.20	591	582	9.3	5.3	2.30	2.1	1.2	6.3
	09/15/04r	NLPH	0.23	200.37	118	586	---	3.20	<0.50	1.8	8.2	3.1
	12/15/04	**NLPH**	**0.12**	**200.48**	**676**	**698**	**---**	**6.70**	**6.20**	**1.9**	**20.5**	**11.3**
MW6	06/22/88	NLPH	3.61	199.67	---	630	---	---	160	total BTEX	---	---
(203.28)	09/08/88	Sheen	5.41	197.87	---	---	---	---	---	---	---	---
	01/26/89	Sheen	3.24	200.04	---	---	---	---	---	---	---	---
	03/27/89	LPH	1.44	201.84	---	---	---	---	---	---	---	---
	04/25/89	LPH	2.25	201.03	---	---	---	---	---	---	---	---
	07/26/89	NLPH	3.37	199.91	---	18	---	---	2	total BTEX	---	---
	10/24/89	NLPH	2.34	200.94	---	20	---	---	ND	total BTEX	---	---
	12/18/89	NLPH	2.73	200.55	---	---	---	---	---	---	---	---
	01/26/90	NLPH	2.21	201.07	---	330	---	---	84	total BTEX	---	---
	02/18/90	NLPH	1.82	201.46	---	---	---	---	---	---	---	---
	03/13/90	NLPH	2.04	201.24	---	---	---	---	---	---	---	---
	04/19/90	NLPH	2.85	200.43	---	330	---	---	74	total BTEX	---	---
	07/26/90	NLPH	2.35	200.93	---	---	---	---	---	---	---	---
	10/11/90	LPH	3.42	199.86	---	---	---	---	---	---	---	---
	04/23/91	NLPH	2.52	200.76	---	440	---	---	6.1	4.7	<0.5	38
	07/25/91	LPH	3.44	199.84	---	---	---	---	---	---	---	---
	10/03/91	LPH	3.79	199.49	---	290	---	---	5.3	5.9	5.1	27
	01/20/92	LPH	4.16	199.12	---	---	---	---	---	---	---	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date		feet				ug/L					
MW6 (cont.)	04/30/92	LPH	2.47	200.81	---	---	---	---	---	---	---	---
(203.28)	11/02/92	LPH	3.35	199.93	---	---	---	---	---	---	---	---
	12/07/92	LPH	4.50	198.78	---	---	---	---	---	---	---	---
	03/29/93	---	---	---	---	---	---	---	---	---	---	---
	06/16/93	LPH	2.49	200.79	---	830	---	---	25	9	19	1000
	06/29/93	LPH	2.87	200.41	---	---	---	---	---	---	---	---
	07/26/93	Sheen	2.71	200.57	---	---	---	---	---	---	---	---
	08/24/93	Sheen	2.81	200.47	---	---	---	---	---	---	---	---
	09/22/93	NLPH	2.85	200.43	---	---	---	---	---	---	---	---
	10/06/93	NLPH	3.02	200.26	---	---	---	---	---	---	---	---
	11/08/93	Sheen	3.11	200.17	---	---	---	---	---	---	---	---
	12/07/93	Sheen	2.65	200.63	---	---	---	---	---	---	---	---
	01/19/94	Sheen	2.62	200.66	---	420	---	---	7.5	1.8	7.9	31
	07/25/94	LPH	2.71	200.57	---	---	---	---	---	---	---	---
	01/26/95	LPH	1.63	201.65	---	---	---	---	---	---	---	---
	07/26/95	LPH	2.44	200.84	---	---	---	---	---	---	---	---
	01/18/96	NLPH	2.45	200.83	---	---	---	---	---	---	---	---
	01/16/97	NLPH	2.01	201.27	---	---	---	---	---	---	---	---
	04/21/97	NLPH	11.0	192.28	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
(203.48)	07/09/97	NLPH	3.15	200.13	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	10/27/97	NLPH	2.95	200.33	---	<50	<30	---	<0.5	<0.5	<0.5	0.71
	03/25/98	---	---	---	---	---	---	---	---	---	---	---
	06/11/98	---	---	---	---	---	---	---	---	---	---	---
	09/10/98	NLPH	2.59	200.89	110	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/15/98	NLPH	2.31	201.17	82	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	03/09/99	NLPH	1.62	201.86	120	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	06/28/99	NLPH	2.32	201.16	238	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	09/21/99	NLPH	2.41	201.07	175b	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/27/99	NLPH	3.00	200.48	240	<50	2.1	---	<0.5	<0.5	<0.5	<0.5
	03/27/00	NLPH	1.92	201.56	120	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/13/00	NLPH	2.43	201.05	51	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transferred to Valero Refining Company										
	09/21/00	NLPH	2.65	200.83	76	<50	82	62	<0.5	<0.5	<0.5	<0.5
	12/27/00	NLPH	2.77	200.71	59e	<50	2.2	---	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	2.22	201.26	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	2.41	201.07	69	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	09/24/01	---	---	---	---	---	---	---	---	---	---	---
	12/26/01	NLPH	1.49	201.99	84i	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	3/26/02j	---	---	---	---	---	---	---	---	---	---	---
	6/24/02j	NLPH	2.18	201.30	114 k	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	2.31	201.17	56	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/31/02	NLPH	1.47	202.01	<50	<50.0	<0.5	---	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	1.88	201.60	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	1.96	201.52	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	2.15	201.33	59	<50.0	0.5	0.60	<0.50	<0.5	<0.5	<0.5
	12/01/04	NLPH	2.13	201.35	<50.	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	2.09	201.39	<50.	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	06/16/04	c	c	c	c	c	c	c	c	c	c	c
	09/15/04r	NLPH	2.51	200.97	<50	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**1.81**	**201.67**	**66**	**<50.0**	**---**	**<0.50**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW7	08/12/88	---	---	---	---	ND	---	---	ND	ND	ND	ND
(205.59)	09/02/88	NLPH	8.06	197.53	---	---	---	---	---	---	---	---
	01/26/89	NLPH	5.94	199.65	---	7	---	---	ND	ND	ND	ND
	03/27/89	NLPH	3.84	201.75	---	---	---	---	---	---	---	---
	04/25/89	NLPH	4.60	200.99	---	ND	---	---	ND	ND	ND	ND
	07/26/89	NLPH	5.83	199.76	---	ND	---	---	ND	ND	ND	ND
	10/24/89	NLPH	4.77	200.82	---	ND	---	---	ND	ND	ND	ND
	12/18/89	NLPH	5.27	200.32	---	---	---	---	---	---	---	---
	01/26/90	NLPH	4.54	201.05	---	ND	---	---	ND	ND	ND	ND
	02/18/90	NLPH	4.09	201.50	---	---	---	---	---	---	---	---
	03/13/90	NLPH	4.41	201.18	---	---	---	---	---	---	---	---
	04/19/90	NLPH	5.26	200.33	---	ND	---	---	ND	ND	ND	ND
	07/26/90	---	---	---	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	10/11/90	---	---	---	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	04/23/91	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/25/91	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	10/03/91	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/20/92	---	---	---	---	---	---	---	---	---	---	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date	<----feet---->			<----ug/L---->							
MW7 (cont.)	04/30/92	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
(205.59)	11/02/92	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	12/07/92	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	1.4
	03/29/93	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	06/16/93	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/26/93	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/19/94	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/25/94	---	---	---	---	---	---	---	---	---	---	---
	01/26/95	---	---	---	---	---	---	---	---	---	---	---
	07/26/95	---	---	---	---	---	---	---	---	---	---	---
	01/18/96	---	---	---	---	---	---	---	---	---	---	---
	01/16/97	NLPH	3.96	201.63	---	---	---	---	---	---	---	---
	04/21/97	NLPH	4.13	201.46	---	---	---	---	---	---	---	---
	07/09/97	NLPH	5.40	200.19	---	---	---	---	---	---	---	---
	10/27/97	NLPH	5.45	200.14	---	---	---	---	---	---	---	---
	03/25/98	NLPH	3.61	201.98	---	<50	---	<2.0	<0.5	<0.5	<0.5	0.58
	06/11/98	NLPH	3.96	201.63	---	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	09/10/98	NLPH	4.89	201.57	170	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/15/98	NLPH	4.59	201.87	<50	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	03/09/99	NLPH	3.65	202.81	58	<50	<2.5	---	<0.5	<0.5	<0.5	0.74
	06/28/99	NLPH	4.59	201.87	100	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
(206.46)	09/21/99	NLPH	4.6	201.86	<50	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/27/99	NLPH	5.25	201.21	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	03/27/00	NLPH	4.04	202.42	59	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/13/00	NLPH	4.77	201.69	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transferred to Valero Refining Company										
	09/21/00	NLPH	5.06	201.40	<50	<50	<2	---	<0.5	0.68	<0.5	<0.5
	12/27/00	NLPH	5.09	201.37	<50e	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	4.43	202.03	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	2.71	203.75	56	<50	7.3	112	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	5.29	201.17	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	3.33	203.13	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
(206.42)	03/26/02	NLPH	4.31	202.11	<50.0	<50.0	<2.00	---	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	4.39	202.03	60 k	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	4.55	201.87	89	<50.0	<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/31/02	NLPH	2.72	203.70	<50	<50.0	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	3.99	202.43	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	4.13	202.29	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	4.35	202.07	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	12/01/04	NLPH	4.30	202.12	140	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	4.06	202.36	<50	<50.0	---	<0.50	<0.5	0.5	<0.5	<0.5
	06/16/04	NLPH	4.65	201.77	<50	<50.0	<0.50	---	<0.50	<0.5	<0.5	<0.5
	09/15/04r	NLPH	4.74	201.68	<50	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**4.36**	**202.06**	**<50**	**<50.0**	**---**	**<0.50**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW8	08/12/88	---	---	---	---	ND	---	---	ND	ND	ND	ND
(199.16)	09/02/88	NLPH	6.87	192.29	---	---	---	---	---	---	---	---
	01/26/89	NLPH	2.16	197.00	---	52	---	---	ND	ND	ND	ND
	03/27/89	NLPH	0.46	198.70	---	---	---	---	---	---	---	---
	04/25/89	NLPH	0.41	198.75	---	190	---	---	10	total BTEX	---	---
	07/26/89	NLPH	1.54	197.62	---	71	---	---	4	total BTEX	---	---
	10/24/89	NLPH	0.99	198.17	---	120	---	---	1	total BTEX	---	---
	01/26/90	NLPH	1.01	198.15	---	110	---	---	ND	total BTEX	---	---
	04/19/90	NLPH	1.29	197.87	---	95	---	---	2	total BTEX	---	---
	07/26/90	---	---	---	---	620	---	---	19	<0.3	<0.3	<0.6
	10/11/90	---	---	---	---	1,600	---	---	76	0.9	1.0	2
	04/23/91	---	---	---	---	96	---	---	0.8	0.6	<0.5	<0.5
	07/25/91	---	---	---	---	98	---	---	<0.5	<0.5	<0.5	<0.5
	10/03/91	---	---	---	---	<50	---	---	0.6	<0.5	<0.5	<0.5
	01/20/92	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	04/30/92	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	11/02/92	---	---	---	---	190	---	---	3.7	<0.5	0.8	1.6
	12/07/92	---	---	---	---	<50	---	---	1.9	<0.5	<0.5	1.4
	03/29/93	---	---	---	---	<50	---	---	1.6	<0.5	1.3	1.8
	06/16/93	---	---	---	---	---	---	---	---	---	---	---
	07/26/93	---	---	---	---	<50	---	---	0.79	<0.5	<0.5	<0.5
	01/19/94	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/25/94	---	---	---	---	<50	---	---	1.5	1.0	<0.5	0.70
	01/26/95	---	---	---	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date	<----feet---->			<----ug/L---->							
MW8 (cont.)	07/26/95	---	---	---	450	<50	14000d	---	<0.5	<0.5	<0.5	<0.5
(199.14)	01/18/96	---	---	---	---	<50	---	---	<.5	<.5	<.5	<.5
	01/16/97	NLPH	1.07	198.09	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	04/21/97	NLPH	1.10	198.06	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	07/09/97	NLPH	1.81	197.35	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	10/27/97	NLPH	1.55	197.61	---	---	---	---	---	---	---	---
	03/25/98	NLPH	0.14	199.02	---	<50	---	<2.0	<0.5	<0.5	<0.5	<0.5
	06/11/98	NLPH	0.30	198.86	---	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	09/10/98	NLPH	0.93	198.21	54	<50	14	---	<0.5	<0.5	<0.5	<0.5
	12/15/98	NLPH	0.75	198.39	<50	<50	15	---	<0.5	<0.5	<0.5	<0.5
	03/09/99	NLPH	0.22	198.92	61	<50	19	---	<0.5	<0.5	<0.5	<0.5
	06/28/99	NLPH	0.75	198.39	959	<50	13.4	---	<0.5	<0.5	<0.5	<0.5
	09/21/99	NLPH	0.97	198.17	172b	<50	22.3	---	<0.5	<0.5	<0.5	<0.5
	12/27/99	NLPH	1.10	198.04	<50	<50	53	---	<0.5	<0.5	<0.5	<0.5
	03/27/00	NLPH	0.39	198.75	<250	<50	41	---	<0.5	<0.5	<0.5	<0.5
	06/13/00	NLPH	0.68	198.46	<50	<50	61	53	<0.5	<0.5	<0.5	<0.5
	06/16/00	Propdrty transfdrrdd to Valdro Rdfining Company										
	09/21/00	NLPH	0.94	198.20	<50	<50	150	120	<0.5	<0.5	<0.5	<0.5
	12/27/00	NLPH	1.11	198.03	74e	<50	240	200	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	0.65	198.49	<50	<50	210	220	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	0.88	198.26	55	<50	450	260	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	1.39	197.75	<50	<50	900	1,200	<2.5	<2.5	<2.5	<2.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	1.42	197.72	<50	<50	790	730	<0.5	<0.5	<0.5	<0.5
(199.14)	03/26/02	NLPH	0.61	198.53	<50.0	378	447	562	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	0.72	198.42	<51 k	323	404	327	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	0.91	198.23	57	349	476	529	<0.5	<0.5	<0.5	<0.5
	12/31/02	NLPH	2.32	196.82	<50	395	427	550	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	0.53	198.61	<50	285	323	256	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	0.46	198.68	<50n	191	187	333	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	0.76	198.38	<50	186	220	254	<0.50	<0.5	<0.5	<0.5
	12/01/04	NLPH	0.60	198.54	---	---	---	---	---	---	---	---
	12/02/03	---	---	---	n	155	222	231	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	0.70	198.44	<50p	53.1	---	128	<0.50	0.5	<0.5	<0.5
	06/16/04	NLPH	0.90	198.24	51	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	09/15/04r	NLPH	1.10	198.04	<50	132	---	128	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**0.84**	**198.30**	**<50**	**75.4**	**---**	**116**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW9	08/12/88	---	---	---	---	5.0	---	---	---	---	---	---
(203.19)	09/02/88	NLPH	3.24	199.75	---	---	---	---	---	---	---	---
	01/26/89	NLPH	5.16	198.03	---	ND	---	---	ND	ND	ND	ND
	03/27/89	NLPH	3.31	199.88	---	---	---	---	---	---	---	---
	04/25/89	NLPH	4.11	199.08	---	ND	---	---	ND	ND	ND	ND
	07/26/89	NLPH	5.13	198.06	---	ND	---	---	ND	ND	ND	ND
	10/24/89	NLPH	4.51	198.68	---	ND	---	---	ND	ND	ND	ND
	12/18/89	NLPH	4.95	198.24	---	---	---	---	---	---	---	---
	01/26/90	NLPH	4.45	198.74	---	ND	---	---	ND	ND	ND	ND
	02/18/90	NLPH	4.01	199.18	---	---	---	---	---	---	---	---
	03/13/90	NLPH	4.18	199.01	---	---	---	---	---	---	---	---
	04/19/90	NLPH	4.87	198.32	---	ND	---	---	ND	ND	ND	ND
	07/26/90	---	---	---	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	10/11/90	---	---	---	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	04/23/91	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/25/91	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	10/03/91	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/20/92	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	04/30/92	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	11/02/92	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	12/07/92	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	03/29/93	---	---	---	---	<50	---	---	0.7	<0.5	<0.5	<0.5
	06/16/93	---	---	---	---	<50	---	---	<0.5	0.6	<0.5	<0.5
	07/26/93	---	---	---	---	<50	---	---	0.7	1.9	1.1	5.5
	01/16/94	---	---	---	---	<50	---	---	<0.5	0.85	<0.5	2.0
	07/25/94	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/26/95	---	---	---	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/26/95	---	---	---	<50	<50	<10000	---	<0.5	<0.5	<0.5	<0.5
	01/18/96	---	---	---	---	65	---	---	5.3	2.4	3.1	13
	01/16/97	NLPH	3.44	199.75	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	04/21/97	NLPH	4.10	199.09	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California
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Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date		feet				ug/L					
MW9 (cont.)	07/09/97	NLPH	4.50	198.69	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
(203.19)	10/27/97	NLPH	4.45	198.74	---	---	---	---	---	---	---	---
	03/25/98	NLPH	3.06	200.13	---	<50	---	<2.0	<0.5	<0.5	<0.5	<0.5
	06/11/98	NLPH	3.38	199.81	---	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	09/10/98	NLPH	4.14	199	53	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/15/98	NLPH	3.80	199.34	---	---	---	---	---	---	---	---
	03/09/99	NLPH	3.06	200.08	---	---	---	---	---	---	---	---
	6/28/99a	NLPH	3.62	199.52	---	---	---	---	---	---	---	---
(203.14)	09/21/99	NLPH	4.10	199.04	<50	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/27/99	NLPH	4.51	198.63	---	---	---	---	---	---	---	---
	03/27/00	NLPH	3.47	199.67	---	---	---	---	---	---	---	---
	06/13/00	NLPH	3.91	199.23	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transferred to Valero Refining Company										
	09/21/00	NLPH	4.28	198.86	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	12/27/00	NLPH	4.42	198.72	<50e	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	3.85	199.29	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	4.20	198.94	57	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	4.58	198.56	<50	74	<2	---	<0.5	<0.5	<0.5	<0.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	3.38	199.76	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
(203.13)	03/26/02	NLPH	3.60	199.53	<50.0	<50.0	<2.00	---	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	3.93	199.20	<51 k	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	3.98	199.15	<50	<50.0	<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/31/02	NLPH	3.14	199.99	<50	<50.0	<0.5	---	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	3.53	199.60	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	3.62	199.51	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	3.88	199.25	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	12/02/03	NLPH	4.17	198.96	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	3.61	199.52	<50	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	06/16/04	NLPH	4.15	198.98	<50	<50.0	<0.50	---	<0.50	<0.5	<0.5	<0.5
	09/15/04r	NLPH	4.99	198.14	<50	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**3.50**	**199.63**	**<50**	**<50.0**	**---**	**<0.50**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW10	08/12/88	---	---	---	---	53,000	---	---	---	---	---	---
(198.42)	09/02/88	NLPH	4.92	193.5	---	---	---	---	---	---	---	---
	01/26/89	NLPH	2.28	196.14	---	25,000	---	---	8,700	total BTEX	---	---
	03/27/89	NLPH	1.51	196.91	---	---	---	---	---	---	---	---
	04/25/89	NLPH	1.93	196.49	---	28,000	---	---	12,000	total BTEX	---	---
	07/26/89	NLPH	3.54	194.88	---	24,000	---	---	11,000	total BTEX	---	---
	10/24/89	NLPH	1.92	196.50	---	27,000	---	---	9,800	total BTEX	---	---
	12/18/89	NLPH	2.71	195.71	---	---	---	---	---	---	---	---
	01/26/90	NLPH	2.23	196.19	---	22,000	---	---	10,000	total BTEX	---	---
	02/18/90	NLPH	1.01	197.41	---	---	---	---	---	---	---	---
	03/13/90	NLPH	1.76	196.66	---	---	---	---	---	---	---	---
	04/19/90	NLPH	2.59	195.83	---	31,000	---	---	14,490	total BTEX	---	---
	07/26/90	NLPH	2.39	196.03	---	26,000	---	---	4,700	1,400	820	2,400
	10/11/90	NLPH	2.93	195.49	---	30,000	---	---	5,200	1,400	1,000	3,100
	04/23/91	NLPH	1.80	196.62	---	60,000	---	---	9,200	5,400	1,100	4,500
	07/25/91	NLPH	2.88	195.54	---	44,000	---	---	5,700	2,500	1,500	4,400
	10/03/91	NLPH	3.58	194.84	---	46,000	---	---	4,300	2,300	1,400	4,100
	01/20/92	NLPH	2.70	195.72	---	29,000	---	---	4,000	1,500	930	2,700
	04/30/92	NLPH	2.10	196.32	---	77,000	---	---	29,000	31,000	3,000	9,600
	11/02/92	NLPH	2.60	195.82	---	29,000	---	---	3,000	1,500	1,100	3,000
	12/10/92	NLPH	2.75	195.67	---	73,000	---	---	13,000	4,900	2,900	8,300
	03/29/93	NLPH	1.44	196.98	---	38,000	---	---	8,800	2,800	1,600	4,200
	07/26/93	NLPH	2.58	195.84	---	47,000	---	---	5,400	2,000	1,900	4,600
	08/24/93	NLPH	2.75	195.67	---	---	---	---	---	---	---	---
	09/22/93	NLPH	2.82	195.60	---	---	---	---	---	---	---	---
	10/06/93	NLPH	2.99	195.43	---	---	---	---	---	---	---	---
	11/08/93	NLPH	2.68	195.74	---	---	---	---	---	---	---	---
	12/07/93	NLPH	2.02	196.40	---	---	---	---	---	---	---	---
	01/19/94	Sheen	2.10	196.32	---	45,000	---	---	4,900	1,700	1,200	3,600
	07/25/94	NLPH	3.00	195.42	---	31,000	---	---	3,100	1,800	1,400	4,100
	01/26/95	NLPH	1.50	196.92	<500	23,000	---	---	2,500	370	900	1,300
	07/26/95	LPH	2.46	195.96	---	---	---	---	---	---	---	---
	01/18/96	NLPH	1.00	197.42	---	18,000	<600	---	2,900	1,100	1,100	2,400
	01/16/97	---	1.38	197.04	---	---	---	---	---	---	---	---
	04/21/97	NLPH	2.27	196.15	---	25,000	<600	---	4,400	1,500	1,500	2,400
	07/09/97	NLPH	3.12	195.30	---	25,000	<600	---	2,300	980	1,400	3,300

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW (feet)	Elev. (feet)	TPHd (ug/L)	TPHg (ug/L)	MTBE (8015-8021B) (ug/L)	MTBE (8026B) (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)
MW10 (cont.)	10/27/97	NLPH	2.60	195.82	—	18,000	<200	—	1,300	450	880	1,800
(198.42)	03/25/98	—	—	—	—	—	—	—	—	—	—	—
	06/11/98	—	—	—	—	—	—	—	—	—	—	—
	09/10/98	NLPH	2.62	195.80	2,700	23,000	830	—	1,800	450	1,200	1,900
	12/15/98	NLPH	1.43	196.99	1,800	15,000	760	—	1,800	500	780	1,500
	03/09/99	NLPH	0.93	197.49	1,900	15,000	620	—	2,900	1,300	1,100	1,800
	06/28/99	NLPH	2.00	196.42	3,100	19,400	<250	—	1,960	1,640	1,220	2,880
	09/21/99	NLPH	2.62	195.80	1,180b	9,260	545	—	1,100	360	710	1,110
	12/27/99	NLPH	2.32	196.10	870	16,000	<10	—	1,800	640	870	1,690
	03/27/00	NLPH	1.43	196.99	660	15,000	<50	—	2,300	1,100	930	1,750
	06/13/00	NLPH	2.21	196.21	1,400	26,000	<200	—	2,700	1,200	1,400	2,680
	06/16/00	Property transferred to Valero Refining Company										
	09/21/00	NLPH	2.47	195.95	110	12,000	280	<10	1,300	450	940	1,440
	12/27/00	NLPH	2.18	196.24	770e	18,000	<100	—	2,300	960	910	1,960
	03/26/01	NLPH	1.65	196.77	1,400	24,000	<200	—	2,800	1,800	1,200	2,860
	06/29/01	NLPH	2.27	196.15	1,200	17,000	<50	<5	1,300	530	1,000	1,560
	09/24/01	NLPH	2.75	195.67	1,200 F5i6	14,000	42i	<5	830	290	800	1,210
	11/1/01	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	1.40	197.02	1,200i	17,000	<100	<5	1,700	760	940	1,620
(198.43)	03/26/02	NLPH	1.42	197.01	1,330	17,800	270	<10	2,360	1,110	1,200	1,850
	06/24/02	NLPH	2.41	196.02	1,940 k	14,800	40.0	<0.50	970	748	410	1,180
	09/23/02	NLPH	2.53	195.90	1,290	9,560	50.0	<5.00	500	189	530	789
	12/31/02	NLPH	0.98	197.45	1,090	8,860	<0.5	<0.5	1,010	425	550	955
	03/28/03	NLPH	1.64	196.79	2,320	22,100	98.0	<5.00	1,950	958	1,010	1,790
	06/05/03	c	—	—	—	—	—	—	—	—	—	—
	09/09/03	c	—	—	—	—	—	—	—	—	—	—
	12/02/03	c	—	—	—	—	—	—	—	—	—	—
	03/23/04	c	—	—	—	—	—	—	—	—	—	—
	06/16/04	NLPH	2.56	195.87	1,080	11,400	54.0	5.8	918	292	866	1,100
(202.34)	09/15/04r	NLPH	6.87	195.47	1,140	9,380	—	15.7	546	111	640	474
	12/15/04	**NLPH**	**5.92**	**196.42**	**982**	**9,120**	**—**	**8.1**	**705**	**286**	**521**	**709**
MW11	06/27/88	NLPH	—	—	—	79	—	—	—	—	—	—
(201.49)	09/02/88	NLPH	4.97	196.52	—	—	—	—	—	—	—	—
	01/26/89	NLPH	1.81	199.68	—	ND	—	—	ND	ND	ND	ND
	03/27/89	NLPH	0.69	200.80	—	—	—	—	—	—	—	—
	04/25/89	NLPH	1.79	199.70	—	ND	—	—	ND	ND	ND	ND
	07/26/89	NLPH	3.65	197.84	—	ND	—	—	ND	ND	ND	ND
	10/24/89	NLPH	2.01	199.48	—	ND	—	—	ND	ND	ND	ND
	12/18/89	NLPH	2.89	198.60	—	—	—	—	—	—	—	—
	01/26/90	NLPH	1.97	199.52	—	ND	—	—	ND	ND	ND	ND
	02/18/90	NLPH	2.89	198.60	—	—	—	—	—	—	—	—
	03/13/90	NLPH	1.96	199.53	—	—	—	—	—	—	—	—
	04/19/90	NLPH	2.39	199.10	—	ND	—	—	ND	ND	ND	ND
	07/26/90	—	—	—	—	<1	—	—	<0.3	<0.3	<0.3	<0.6
	10/11/90	—	—	—	—	<1	—	—	<0.3	<0.3	<0.3	<0.6
	04/23/91	—	—	—	—	<50	—	—	<0.5	0.7	<0.5	<0.5
	07/25/91	—	—	—	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/20/92	—	—	—	—	610	—	—	44	43	33	93
	04/30/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	11/02/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	12/10/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	03/29/93	—	—	—	—	<50	—	—	0.6	<0.5	0.6	<0.5
	06/16/93	—	—	—	—	—	—	—	—	—	—	—
	07/26/93	—	—	—	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	07/25/94	—	—	—	—	—	—	—	—	—	—	—
	01/26/95	—	—	—	—	—	—	—	—	—	—	—
	07/26/95	—	—	—	—	—	—	—	—	—	—	—
	01/18/96	—	—	—	—	—	—	—	—	—	—	—
	01/16/97	NLPH	0.87	200.62	—	—	—	—	—	—	—	—
	04/21/97	NLPH	0.94	200.55	—	—	—	—	—	—	—	—
	07/09/97	NLPH	1.95	199.54	—	—	—	—	—	—	—	—
	10/27/97	NLPH	2.87	198.62	—	—	—	—	—	—	—	—
	03/25/98	—	—	—	—	—	—	—	—	—	—	—
	06/11/98	NLPH	1.20	200.29	—	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
	09/10/98	NLPH	2.84	198.7	<50	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
(201.54)	12/15/98	NLPH	1.11	200.43	—	—	—	—	—	—	—	—

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California
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Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date	<----	feet	---->	<----			ug/L				---->
MW11 (cont.)	03/09/99	NLPH	0.31	201.23	—	—	—	—	—	—	—	—
(201.54)	6/28/99a	NLPH	2.66	198.88	—	—	—	—	—	—	—	—
	09/21/99	NLPH	3.18	198.36	<50	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
	12/27/99	NLPH	2.50	199.04	—	—	—	—	—	—	—	—
	03/27/00	NLPH	1.52	200.02	—	—	—	—	—	—	—	—
	06/13/00	NLPH	2.57	198.97	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	06/16/00	Properly transferred to Valero Refining Company										
	09/21/00	NLPH	3.10	198.44	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	12/27/00	NLPH	1.96	199.58	<50e	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	1.38	200.16	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	2.51	199.03	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	3.35	198.19	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	0.45	201.09	<50	<50	<2	—	<0.5	<0.5	<0.5	<0.5
(201.52)	03/26/02	NLPH	0.84	200.68	<50.0	<50.0	<2.00	—	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	2.78	198.74	54 k	<50	<0.5	—	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	3.71	197.81	91	<50	<0.5	—	<0.5	<0.5	<0.5	0.7
	12/31/02	NLPH	0.00	201.52	<50	<50.0	<0.5	—	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	1.11	200.41	<50	<50.0	<0.5	—	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	3.18	198.34	<50	<50.0	<0.5	—	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	3.01	198.51	<50	<50.0	<0.5	—	<0.50	<0.5	<0.5	<0.5
	12/01/03	NLPH	3.11	198.41	<50	<50.0	<0.5	—	0.5	<0.5	0.9	2.0
	03/23/04	q	q	q	q	q	q	q	q	q	q	q
	06/16/04	q	q	q	q	q	q	q	q	q	q	q
	09/15/04r	q	q	q	q	q	q	q	q	q	q	q
	12/15/04	q	q	q	q	q	q	q	q	q	q	q
MW12	06/27/88	—	—	—	—	ND	—	—	ND	ND	ND	ND
(198.50)	09/02/88	NLPH	2.79	195.71	—	—	—	—	—	—	—	—
	01/26/89	NLPH	0.84	197.66	—	ND	—	—	ND	ND	ND	ND
	03/27/89	NLPH	0.60	197.90	—	—	—	—	—	—	—	—
	04/25/89	NLPH	0.80	197.70	—	ND	—	—	ND	ND	ND	ND
	07/26/89	NLPH	1.37	197.13	—	ND	—	—	ND	ND	ND	ND
	10/24/89	NLPH	0.71	197.79	—	ND	—	—	ND	ND	ND	ND
	12/18/89	NLPH	1.07	197.43	—	—	—	—	—	—	—	—
	01/26/90	NLPH	0.87	197.63	—	ND	—	—	ND	ND	ND	ND
	02/18/90	NLPH	0.58	197.92	—	—	—	—	—	—	—	—
	03/13/90	NLPH	0.77	197.73	—	—	—	—	—	—	—	—
	04/19/90	NLPH	1.05	197.45	—	ND	—	—	ND	ND	ND	ND
	07/26/90	—	—	—	—	ND	—	—	ND	ND	ND	ND
	10/11/90	—	—	—	—	<1.0	—	—	<0.3	<0.3	<0.3	<0.6
	04/23/91	—	—	—	—	<1.0	—	—	<0.3	<0.3	<0.3	<0.6
	07/25/91	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	10/03/91	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/20/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	04/30/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	11/02/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	12/10/92	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	03/29/93	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	06/16/93	—	—	—	—	<50	—	—	0.8	<0.5	<0.5	<0.5
	07/26/93	—	—	—	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	07/25/94	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/26/95	—	—	—	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	07/26/95	—	—	—	<50	200	—	—	6.6	9.1	10	29
	01/18/96	—	—	—	63	<50	<10,000	—	<0.5	<0.5	<0.5	<0.5
	01/16/97	NLPH	0.65	197.85	—	<50	<30	—	<0.5	<0.5	<0.5	<0.5
	04/21/97	NLPH	0.62	197.88	—	<50	<30	—	<0.5	<0.5	<0.5	<0.5
	07/09/97	NLPH	1.64	196.86	—	<50	<30	—	<0.5	<0.5	<0.5	<0.5
	10/27/97	NLPH	1.65	196.85	—	—	—	—	—	—	—	—
	03/25/98	—	—	—	—	—	—	—	—	—	—	—
	06/11/98	NLPH	0.77	197.73	—	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
	09/10/98	NLPH	1.55	196.96	<50	<50	<2.5	—	<0.5	<0.5	<0.5	<0.5
	12/15/98	NLPH	0.89	197.62	—	—	—	—	—	—	—	—
	03/09/99	NLPH	0.08	198.43	—	—	—	—	—	—	—	—
	06/28/99	c	—	—	—	—	—	—	—	—	—	—
(198.51)	09/21/99	c	—	—	—	—	—	—	—	—	—	—
	12/27/99	c	—	—	—	—	—	—	—	—	—	—
	03/27/00	c	—	—	—	—	—	—	—	—	—	—

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date	<-----	feet	----->	<-----			ug/L	----->			
MW12 (cont.)	06/13/00	NLPH	1.00	197.51	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
(198.51)	06/16/00	Property transferred to Valero Refining Company										
	09/21/00	NLPH	1.53	196.98	110	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	12/27/00	NLPH	0.90	197.61	63e	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	0.81	197.70	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	1.01	197.50	55	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	1.52	196.99	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	0.59	197.92	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
(198.47)	03/26/02	NLPH	0.68	197.79	<50.0	<50.0	<2.00	---	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	1.51	196.96	86 k	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	1.70	196.77	69	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/31/02	NLPH	0.00	198.47	53	<50.0	<0.5	---	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	1.78	196.69	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	0.98	197.49	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	1.13	197.34	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	12/01/03	NLPH	3.54	194.93	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	1.89	196.58	<50	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	06/16/04	NLPH	2.27	196.20	<50	<50.0	<0.5	---	1.20	<0.5	0.6	1.4
	09/15/04r	NLPH	2.21	196.26	<50	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**1.91**	**196.56**	**62**	**<50.0**	**---**	**<0.50**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW13	04/19/90	NLPH	2.38	195.74	---	ND	---	---	ND	ND	ND	ND
(198.12)	07/26/90	NLPH	---	---	---	<1	---	---	<.3	<.3	<.3	<.6
	10/11/90	NLPH	---	---	---	<1	---	---	<.3	<.3	<.3	<.6
	04/23/91	NLPH	---	---	---	<50	---	---	<.5	<.5	<.5	<.5
	07/25/91	NLPH	---	---	---	<50	---	---	<.5	<.5	<.5	<.5
	10/03/91	NLPH	---	---	---	<50	---	---	<.5	<.5	<.5	<.5
	01/20/92	NLPH	---	---	---	<50	---	---	<.5	<.5	<.5	<.5
	04/30/92	NLPH	---	---	---	<50	---	---	<.5	<.5	<.5	<.5
	11/02/92	---	---	---	---	---	---	---	---	---	---	---
	12/10/92	---	---	---	---	---	---	---	---	---	---	---
	03/29/93	NLPH	---	---	---	<50	---	---	0.8	<.5	<.5	<.5
	06/16/93	---	---	---	---	---	---	---	---	---	---	---
	07/26/93	---	---	---	---	---	---	---	---	---	---	---
	01/19/94	---	---	---	---	---	---	---	---	---	---	---
	07/25/94	---	---	---	---	---	---	---	---	---	---	---
	01/26/95	---	---	---	---	---	---	---	---	---	---	---
	07/26/95	---	---	---	---	---	---	---	---	---	---	---
	01/18/96	---	---	---	---	---	---	---	---	---	---	---
	01/16/97	NLPH	0.61	197.51	---	---	---	---	---	---	---	---
	04/21/97	NLPH	0.68	197.44	---	---	---	---	---	---	---	---
	07/09/97	NLPH	1.58	196.54	---	---	---	---	---	---	---	---
	10/27/97	NLPH	1.29	196.83	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	03/25/98	---	---	---	---	---	---	---	---	---	---	---
	06/11/98	NLPH	0.1	198.02	---	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	09/10/98	NLPH	1.13	196.99	<50	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/15/98	NLPH	0.5	197.62	---	---	---	---	---	---	---	---
	03/09/99	NLPH	g	g	---	---	---	---	---	---	---	---
	6/28/99a	NLPH	0.73	197.39	---	---	---	---	---	---	---	---
	09/21/99	NLPH	0.9	197.22	<50	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/27/99	NLPH	1	197.12	---	---	---	---	---	---	---	---
	03/27/00	NLPH	0.21	197.91	---	---	---	---	---	---	---	---
	06/13/00	NLPH	0.7	197.42	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transferred to Valero Refining Company										
	09/21/00	NLPH	1.11	197.01	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	12/27/00	NLPH	0.91	197.21	60e	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	0.31	197.81	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	0.84	197.28	59	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	1.22	196.90	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	0.38	197.74	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
(198.12)	03/26/02	NLPH	0.11	198.01	<50.0	<50.0	<2.00	---	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	0.77	197.35	<52 k	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	1.04	197.08	87	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/31/02	NLPH	0.00	198.12	53	<50.0	<0.5	---	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	0.25	197.87	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	0.40	197.72	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	1.20	196.92	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California
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Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date	<---feet--->			<---ug/L--->							
MW13 (cont.)	12/01/03	NLPH	3.61	194.51	<50.	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
(198.12)	03/23/04	NLPH	0.91	197.21	72	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	06/16/04	NLPH	1.00	197.12	<50	<50.0	<0.50	---	<0.50	<0.5	<0.5	<0.5
	09/15/04r	s	s	s	<50s	<50.0s	---	<0.50s	<0.50s	<0.5s	<0.5s	<0.5s
	12/15/04	**NLPH**	**6.99**	**191.13**	**<50**	**<50.0**	**<0.50**	**---**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW14	04/19/90	NLPH	6.98	191.39	---	ND	---	---	ND	ND	ND	ND
(198.37)	07/26/90	NLPH	---	---	---	ND	---	---	ND	ND	ND	ND
	10/11/90	NLPH	---	---	---	<1.0	---	---	<0.3	<0.3	<0.3	<0.6
	04/23/91	NLPH	---	---	---	<1.0	---	---	<0.3	<0.3	<0.3	<0.6
	07/25/91	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	10/03/91	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/20/92	NLPH	---	---	---	<50	---	---	1.3	0.9	<0.5	<0.5
	04/30/92	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	11/02/92	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	12/10/92	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	03/29/93	NLPH	---	---	---	<50	---	---	0.6	<0.5	0.8	1.4
	06/16/93	---	---	---	---	---	---	---	---	---	---	---
	07/26/93	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/19/94	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/25/94	NLPH	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/26/95	NLPH	---	---	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/26/95	NLPH	---	---	<50	<50	<10,000	---	<0.5	<0.5	<0.5	<0.5
	01/18/96	NLPH	---	---	---	<50	---	---	1.6	1	1.6	7.5
	01/16/97	NLPH	1.38	196.99	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	04/21/97	NLPH	1.98	196.39	---	<50	<30	---	<0.5	<0.5	<0.5	<0.5
	07/09/97	NLPH	2.69	195.68	---	<50	<30	---	0.88	1	<0.5	1
	10/27/97	NLPH	3.12	195.25	---	---	---	---	---	---	---	---
	03/25/98	---	---	---	---	---	---	---	---	---	---	---
	06/11/98	NLPH	1.63	196.74	---	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	09/10/98	NLPH	2.47	195.9	<50	<50	<2.5	---	<0.5	<0.5	<0.5	0.78
	12/15/98	NLPH	1.81	196.56	---	---	---	---	---	---	---	---
	03/09/99	NLPH	1.26	197.11	---	---	---	---	---	---	---	---
	6/28/99a	NLPH	2.62	195.75	---	---	---	---	---	---	---	---
	09/21/99	NLPH	2.64	195.73	<50	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
	12/27/99	NLPH	2.62	195.75	---	---	---	---	---	---	---	---
	03/27/00	NLPH	2.01	196.36	---	---	---	---	---	---	---	---
	06/13/00	NLPH	2.22	196.15	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transferred to Valero Refining Company										
	09/21/00	NLPH	2.41	195.96	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	12/27/00	NLPH	3.14	195.23	61 F691f	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	03/26/01	NLPH	2.65	195.72	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	06/29/01	NLPH	2.63	195.74	68	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	4.30	194.07	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	2.81	195.56	<50	<50	<2	---	<0.5	<0.5	<0.5	<0.5
(198.38)	03/26/02	NLPH	2.32	196.06	<50.0	<50.0	<2.00	---	<0.50	<0.50	<0.50	<0.50
	06/24/02	NLPH	3.11	195.27	<52 k	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	09/23/02	NLPH	3.07	195.31	51	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/31/02	NLPH	1.59	196.79	<50	<50.0	<0.5	---	<0.5	<0.5	<0.5	<0.5
	03/28/03	NLPH	1.99	196.39	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	06/05/03	NLPH	2.21	196.17	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	3.34	195.04	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	12/01/03	NLPH	3.10	195.28	<50	<50.0.	<0.5	---	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	1.93	196.45	<50	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	06/16/04	NLPH	2.21	196.17	<50	<50.0	<0.5	---	<0.50	<0.5	<0.5	<0.5
	09/15/04r	NLPH	3.27	195.11	<50	<50.0	---	<0.50	0.60	<0.5	1.2	1.1
	12/15/04	**NLPH**	**8.60**	**189.78**	**<50**	**<50.0**	**---**	**<0.50**	**<0.50**	**<0.5**	**0.6**	**1.6**
MW15	06/13/00	NLPH	1.61	195.91	<50	<50	45/37f	37	1.5	2.4	0.51	1
(197.52)	06/16/00	Property transferred to Valero Refining Company										
	09/21/00	NLPH	2.4	195.12	<50	63	100	86	5.6	3.7	3.8	12.9
	12/27/00	NLPH	2.99	194.53	93e	<50	120	94	0.64	<0.5	<0.5	<0.5
	03/26/01	NLPH	2.17	195.35	<50	<50	330	370	3.6	<0.5	1.9	0.64
	06/29/01	NLPH	1.69	195.83	<50	<50	460	320	<0.5	<0.5	<0.5	<0.5
	09/24/01	NLPH	2.77	194.75	<50	<50	850	1,000	<0.5	<0.5	<0.5	<0.5
	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	12/26/01	NLPH	2.51	195.01	<50	<50	2,400	2,700	4.9	0.78	4.4	4.9
	03/26/02	NLPH	1.11	196.41	<50.0	1,020	2,340	3,960	24.3	3.70	17.4	14.3
	06/24/02	NLPH	1.51	196.01	97 k	1,300	2,240	2,100	<0.5	<0.5	<0.5	<0.5

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California
(Page 14 of 15)

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE (8015-8021B)	MTBE (8026B)	B	T	E	X
(TOC)	Date	<-----	feet	----->	<-----			ug/L				----->
MW15 (cont.)	09/23/02	NLPH	1.15	196.37	62	1,460	1,760	2,260	1.5	1.1	4.8	5.3
(197.52)	12/31/02	NLPH	0.60	196.92	351	747	787	936	4.4	2.7	4.5	7.0
	03/28/03	NLPH	1.55	195.97	<50	415	397	332	5.30	3.1	4.6	6.3
	06/05/03	NLPH	0.89	196.63	<50m	219	117	334	<0.50	<0.5	<0.5	<0.5
	09/09/03	NLPH	1.81	195.71	<50	114	126	131	<0.50	<0.5	<0.5	<0.5
	12/01/03	NLPH	0.60	196.92	<50.	67.6	38.1	36.7	1.40	1.2	3.2	6.7
	03/23/04	NLPH	2.10	195.42	<50	<50.0	---	67.8	<0.50	<0.5	<0.5	<0.5
	06/16/04	NLPH	1.14	196.38	<50	66.3	54.0	58.7	<0.50	0.7	0.7	1.8
	09/15/04r	NLPH	2.76	194.76	<50	<50.0	---	33.2	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**1.37**	**196.15**	**52**	**<50.0**	**—**	**13.6**	**1.20**	**<0.5**	**0.9**	**0.8**
RW1	1/16/97 RW1 not sampled 1/16/97 to date. No previous analytical data available.											
(198.86)	11/1/2001	Well surveyed in compliance with AB 2886 requirements.										
	3/26/2002	—	—	—	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—	—	—	—
	12/02/03	—	—	—	—	—	—	—	—	—	—	—
	03/23/04	—	—	—	—	—	—	—	—	—	—	—
	06/16/04	—	—	—	—	—	—	—	—	—	—	—
	09/15/04	—	—	—	—	—	—	—	—	—	—	—
	12/15/04	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**—**
MW16												
(201.29)	10/20/03	Well surveyed in compliance with AB 2886 requirements.										
	12/01/03	NLPH	1.89	199.4	—	—	—	—	—	—	—	—
	12/02/03	---	—	—	<50	<50.0	<0.5	—	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	7.34	193.95	<50	<50.0	—	<0.50	<0.50	<0.5	<0.5	<0.5
	06/16/04	NLPH	1.88	199.41	64	<50.0	<0.5	—	1.20	<0.5	0.5	1.7
	09/15/04r	NLPH	2.12	199.17	<50	<50.0	—	<0.50	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**2.30**	**198.99**	**88**	**<50.0**	**—**	**<0.50**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW17												
(200.34)	10/20/03	Well surveyed in compliance with AB 2886 requirements.										
	12/01/03	NLPH	2.51	197.83	—	—	—	—	—	—	—	—
	12/02/03	—	—	—	<50	<50.0	1.7	1.80	<0.50	<0.5	<0.5	<0.5
	03/23/04	NLPH	0.00	200.34	<50	<50.0	—	2.30	<0.50	<0.5	<0.5	<0.5
	06/16/04	NLPH	0.64	199.70	<50	<50.0	<0.5	—	<0.50	<0.5	<0.5	0.9
	09/15/04r	NLPH	1.20	199.14	<50	<50.0	---	<0.50	<0.50	<0.5	<0.5	<0.5
	12/15/04	**NLPH**	**0.90**	**199.44**	**66**	**<50.0**	**—**	**<0.50**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW18												
(202.15)	11/03/04	NLPH	6.02	196.13	481	<50.0	—	<0.50	0.50	0.8	<0.5	1.4
	12/15/04	**NLPH**	**5.72**	**196.43**	**<50**	**<50.0**	**—**	**0.5**	**<0.50**	**<0.5**	**0.7**	**1.7**

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Notes:		Data prior to First Quarter 1998 provided by previous consultant.
ug/L	=	Micrograms per liter.
NLPH	=	No liquid-phase hydrocarbons present in well.
TOC	=	Elevation of top of well casing; relative to mean sea level (MSL) in feet.
SUBJ	=	Results of subjective evaluation.
sheen	=	Liquid-phase hydrocarbons present as a sheen.
DTW	=	Depth to water.
Elev.	=	Elevation of groundwater; relative to mean sea level.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 5030/8015 (modified).
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 5030/8015 (modified).
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ND	=	Not detected above the laboratory method reporting limit.
<	=	Less than the stated laboratory method reporting limit.
—	=	Not sampled/Not measured.
a	=	Monitoring well sampled on an annual basis.
b	=	Laboratory analytical chromatogram pattern: unidentified hydrocarbons C9-C24.
c	=	Well inaccessible.
d	=	Previous consultant's data deemed suspect by ERI.
e	=	Diesel-range hydrocarbons detected in bailer blank; result is suspect.
f	=	Analyzed using EPA Method 8260B.
g	=	Artesian well.
h	=	Estimated value between Method Detection Limit and Practical Quantitation Limit.
i	=	Diesel-range hydrocarbons detected; however, laboratory indicates that chromatogram pattern does not resemble diesel fuel.
j	=	TOC elevation not measured according to AB 2886. Groundwater elevation not used in calculated groundwater flow direction and hydraulic gradient.
k	=	Diesel-range hydrocarbons laboratory control data values outside laboratory historical or method prescribed QC limits.
l	=	Surrogate out of range.
m	=	DRO extraction outside holding time.
o	=	Not sampled due to breakage.
p	=	DRO extraction sampled temperature above acceptable range.
q	=	No groundwater recharge after purging.
r	=	Sampling date on Chain-of-Custody inadvertantly listed as 09/16/04. The correct sampling date is 09/15/04.
s	=	Groundwater elevation data invalidated; analytical results

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<—— ug/L —— >							
MW1	06/22/88	—	—	—	—	—	—	—	—
	09/02/88	—	—	—	—	—	—	—	—
	01/26/89	—	—	—	—	—	—	—	—
	02/18/90	—	—	—	—	—	—	—	—
	03/13/90	—	—	—	—	—	—	—	—
	03/27/89	—	—	—	—	—	—	—	—
	04/25/89	—	—	—	—	—	—	—	—
	07/26/89	—	—	—	—	—	—	—	—
	10/24/89	—	—	—	—	—	—	—	—
	12/18/89	—	—	—	—	—	—	—	—
	01/26/90	—	—	—	—	—	—	—	—
	04/19/90	—	—	—	—	—	—	—	—
	07/26/90	—	—	—	—	—	—	—	—
	10/11/90	—	—	—	—	—	—	—	—
	04/23/91	—	—	—	—	—	—	—	—
	07/25/91	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	—	—	—	—
	01/20/92	—	—	—	—	—	—	—	—
	04/30/92	—	—	—	—	—	—	—	—
	11/02/92	—	—	—	—	—	—	—	—
	12/07/92	—	—	—	—	—	—	—	—
	03/29/93	—	—	—	—	—	—	—	—
	06/16/93	—	—	—	—	—	—	—	—
	07/26/93	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	—	—	—	—
	07/25/94	—	—	—	—	—	—	—	—
	01/26/95	—	—	—	—	—	—	—	—
	07/26/95	—	—	—	—	—	—	—	—
	01/18/96	—	—	—	—	—	—	—	—
	01/16/97	—	—	—	—	—	—	—	—
	04/21/97	—	—	—	—	—	—	—	—
	07/09/97	—	—	—	—	—	—	—	—
	10/27/97	—	—	—	—	—	—	—	—
	03/25/98	<2.0	<2.0	<100	—	—	<2.0	<500	—
	06/11/98	—	—	—	—	—	—	—	—
	09/10/98	—	—	—	—	—	—	—	—
	12/15/98	—	—	—	—	—	—	—	—
	03/09/99	—	—	—	—	—	—	—	—
	06/28/99	—	—	—	—	—	—	—	—
	09/21/99	—	—	—	—	—	—	—	—
	12/27/99	—	—	—	—	—	—	—	—
	03/27/00	—	—	—	—	—	—	—	—
	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—
	06/29/01	—	—	—	—	—	—	—	—
	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<—— ug/L ——>							
MW1 (cont.)	09/09/03	---	---	---	---	---	---	---	---
	12/01/03	---	---	---	---	---	---	---	---
	03/23/04	<0.50	<0.50	32.1	<0.50	<0.50	<0.50	---	---
	06/16/04	---	---	---	---	---	---	<50.0	---
	09/15/04r	---	---	---	---	---	---	---	---
	12/15/04	**<0.50**	**<0.50**	**26.9**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW2	06/22/88	---	---	---	---	---	---	---	---
	09/02/88	---	---	---	---	---	---	---	---
	01/26/89	---	---	---	---	---	---	---	---
	03/27/89	---	---	---	---	---	---	---	---
	04/25/89	---	---	---	---	---	---	---	---
	07/26/89	---	---	---	---	---	---	---	---
	10/24/89	---	---	---	---	---	---	---	---
	12/18/89	---	---	---	---	---	---	---	---
	01/26/90	---	---	---	---	---	---	---	---
	02/18/90	---	---	---	---	---	---	---	---
	03/13/90	---	---	---	---	---	---	---	---
	04/19/90	---	---	---	---	---	---	---	---
	07/26/90	---	---	---	---	---	---	---	---
	10/11/90	---	---	---	---	---	---	---	---
	04/23/91	---	---	---	---	---	---	---	---
	07/25/91	---	---	---	---	---	---	---	---
	10/03/91	---	---	---	---	---	---	---	---
	01/20/92	---	---	---	---	---	---	---	---
	04/30/92	---	---	---	---	---	---	---	---
	11/02/92	---	---	---	---	---	---	---	---
	12/07/92	---	---	---	---	---	---	---	---
	03/29/93	---	---	---	---	---	---	---	---
	07/26/93	---	---	---	---	---	---	---	---
	01/19/94	---	---	---	---	---	---	---	---
	07/25/94	---	---	---	---	---	---	---	---
	01/26/95	---	---	---	---	---	---	---	---
	07/26/95	---	---	---	---	---	---	---	---
	01/18/96	---	---	---	---	---	---	---	---
	01/16/97	---	---	---	---	---	---	---	---
	04/21/97	---	---	---	---	---	---	---	---
	07/09/97	---	---	---	---	---	---	---	---
	10/27/97	---	---	---	---	---	---	---	---
	03/25/98	<2.0	<2.0	<100	---	---	<2.0	<500	---
	06/11/98	---	---	---	---	---	---	---	---
	09/10/98	---	---	---	---	---	---	---	---
	12/15/98	---	---	---	---	---	---	---	---
	03/09/99	---	---	---	---	---	---	---	---
	6/28/99a	---	---	---	---	---	---	---	---
	09/21/99	---	---	---	---	---	---	---	---
	12/27/99	---	---	---	---	---	---	---	---
	03/27/00	---	---	---	---	---	---	---	---
	06/13/00	---	---	---	---	---	---	---	---
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	---	---	---	---	---	---	---	---
	12/27/00	---	---	---	---	---	---	---	---
	03/26/01	---	---	---	---	---	---	---	---
	06/29/01	---	---	---	---	---	---	---	---
	09/24/01	---	---	---	---	---	---	---	---
	12/26/01	---	---	---	---	---	---	---	---
	03/26/02	---	---	---	---	---	---	---	---
	06/24/02	---	---	---	---	---	---	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<--------	--------	--------	--------	----ug/L----	--------	--------	-------->
MW2 (cont.)	09/23/02	---	---	---	---	---	---	---	---
	12/31/02	---	---	---	---	---	---	---	---
	03/28/03	---	---	---	---	---	---	---	---
	06/05/03	---	---	---	---	---	---	---	---
	09/09/03	---	---	---	---	---	---	---	---
	12/01/03	---	---	---	---	---	---	---	---
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---	---
	06/16/04	---	---	---	---	---	---	<50.0	---
	09/15/04r	---	---	---	---	---	---	---	---
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW3	06/22/88	---	---	---	---	---	---	---	---
	09/02/88	---	---	---	---	---	---	---	---
	01/26/89	---	---	---	---	---	---	---	---
	03/27/89	---	---	---	---	---	---	---	---
	04/25/89	---	---	---	---	---	---	---	---
	07/26/89	---	---	---	---	---	---	---	---
	10/24/89	---	---	---	---	---	---	---	---
	12/18/89	---	---	---	---	---	---	---	---
	01/26/90	---	---	---	---	---	---	---	---
	02/18/90	---	---	---	---	---	---	---	---
	03/13/90	---	---	---	---	---	---	---	---
	04/19/90	---	---	---	---	---	---	---	---
	07/26/90	---	---	---	---	---	---	---	---
	10/11/90	---	---	---	---	---	---	---	---
	04/23/91	---	---	---	---	---	---	---	---
	07/25/91	---	---	---	---	---	---	---	---
	10/03/91	---	---	---	---	---	---	---	---
	01/20/92	---	---	---	---	---	---	---	---
	04/30/92	---	---	---	---	---	---	---	---
	11/02/92	---	---	---	---	---	---	---	---
	12/07/92	---	---	---	---	---	---	---	---
	03/29/93	---	---	---	---	---	---	---	---
	07/26/93	---	---	---	---	---	---	---	---
	08/24/93	---	---	---	---	---	---	---	---
	09/22/93	---	---	---	---	---	---	---	---
	10/06/93	---	---	---	---	---	---	---	---
	11/08/93	---	---	---	---	---	---	---	---
	12/07/93	---	---	---	---	---	---	---	---
	01/19/94	---	---	---	---	---	---	---	---
	07/25/94	---	---	---	---	---	---	---	---
	01/26/95	---	---	---	---	---	---	---	---
	07/26/95	---	---	---	---	---	---	---	---
	01/18/96	---	---	---	---	---	---	---	---
	01/16/97	---	---	---	---	---	---	---	---
	04/21/97	---	---	---	---	---	---	---	---
	07/09/97	---	---	---	---	---	---	---	---
	10/27/97	---	---	---	---	---	---	---	---
	03/25/98	<6.7	<6.7	<330	---	---	<6.7	<1,700	ND
	06/11/98	---	---	---	---	---	---	---	---
	09/10/98	---	---	---	---	---	---	---	---
	12/15/98	---	---	---	---	---	---	---	---
	03/09/99	---	---	---	---	---	---	---	---
	06/28/99	---	---	---	---	---	---	---	---
	09/21/99	---	---	---	---	---	---	---	---
	12/27/99	---	---	---	---	---	---	---	---
	03/27/00	---	---	---	---	---	---	---	---
	06/13/00	---	---	---	---	---	---	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<---ug/L--->							
MW3 (cont.)	06/16/00	Property transferred to Valero Refining Company							
	09/26/00	---	---	---	---	---	---	---	---
	12/27/00	---	---	---	---	---	---	---	---
	03/26/01	---	---	---	---	---	---	---	---
	06/29/01	---	---	---	---	---	---	---	---
	09/24/01	---	---	---	---	---	---	---	---
	12/26/01	---	---	---	---	---	---	---	---
	03/26/02	---	---	---	---	---	---	---	---
	06/24/02	---	---	---	---	---	---	---	---
	09/23/02	---	---	---	---	---	---	---	---
	12/31/02	---	---	---	---	---	---	---	---
	03/28/03	---	---	---	---	---	---	---	---
	06/05/03	---	---	---	---	---	---	---	---
	09/09/03	---	---	---	---	---	---	---	---
	12/01/03	---	---	---	---	---	---	---	---
	03/23/04	<0.50	<0.50	123	<0.50	<0.50	<0.50	---	---
	06/16/04	---	---	---	---	---	---	<50.0	---
	09/15/04r	---	---	---	---	---	---	---	---
	12/15/04	**<0.50**	**<0.50**	**56.2**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW4	06/22/88	---	---	---	---	---	---	---	---
	09/02/88	---	---	---	---	---	---	---	
	01/26/89	---	---	---	---	---	---	---	---
	03/27/89	---	---	---	---	---	---	---	---
	04/25/89	---	---	---	---	---	---	---	---
	07/26/89	---	---	---	---	---	---	---	---
	10/24/89	---	---	---	---	---	---	---	---
	12/18/89	---	---	---	---	---	---	---	---
	01/26/90	---	---	---	---	---	---	---	---
	02/18/90	---	---	---	---	---	---	---	---
	03/13/90	---	---	---	---	---	---	---	---
	04/19/90	---	---	---	---	---	---	---	---
	07/26/90	---	---	---	---	---	---	---	---
	10/11/90	---	---	---	---	---	---	---	---
	04/23/91	---	---	---	---	---	---	---	---
	07/25/91	---	---	---	---	---	---	---	---
	10/03/91	---	---	---	---	---	---	---	---
	01/20/92	---	---	---	---	---	---	---	---
	04/30/92	---	---	---	---	---	---	---	---
	11/02/92	---	---	---	---	---	---	---	---
	12/07/92	---	---	---	---	---	---	---	---
	03/29/93	---	---	---	---	---	---	---	---
	07/26/93	---	---	---	---	---	---	---	---
	01/19/94	---	---	---	---	---	---	---	---
	07/25/94	---	---	---	---	---	---	---	---
	01/26/95	---	---	---	---	---	---	---	---
	07/26/95	---	---	---	---	---	---	---	---
	01/18/96	---	---	---	---	---	---	---	---
	01/16/97	---	---	---	---	---	---	---	---
	04/21/97	---	---	---	---	---	---	---	---
	07/09/97	---	---	---	---	---	---	---	---
	10/27/97	---	---	---	---	---	---	---	---
	03/25/98	<2.0	<2.0	<100	---	---	<2.0	<500	---
	06/11/98	---	---	---	---	---	---	---	---
	09/10/98	---	---	---	---	---	---	---	---
	12/15/98	---	---	---	---	---	---	---	---
	03/09/99	---	---	---	---	---	---	---	---
	06/28/99	---	---	---	---	---	---	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<--				ug/L			-->
MW4 (cont.)	09/21/99	—	—	—	—	—	—	—	—
	12/27/99	—	—	—	—	—	—	—	—
	03/27/00	—	—	—	—	—	—	—	—
	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—
	06/29/01	—	—	—	—	—	—	—	—
	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/01/03	—	—	—	—	—	—	—	—
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—	—
	06/16/04	—	—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW5	06/22/88	—	—	—	—	—	—	—	—
	09/02/88	—	—	—	—	—	—	—	—
	01/26/89	—	—	—	—	—	—	—	—
	03/27/89	—	—	—	—	—	—	—	—
	04/25/89	—	—	—	—	—	—	—	—
	07/26/89	—	—	—	—	—	—	—	—
	10/24/89	—	—	—	—	—	—	—	—
	12/18/89	—	—	—	—	—	—	—	—
	01/26/90	—	—	—	—	—	—	—	—
	02/18/90	—	—	—	—	—	—	—	—
	03/13/90	—	—	—	—	—	—	—	—
	04/19/90	—	—	—	—	—	—	—	—
	07/26/90	—	—	—	—	—	—	—	—
	10/11/90	—	—	—	—	—	—	—	—
	04/23/91	—	—	—	—	—	—	—	—
	07/25/91	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	—	—	—	—
	01/20/92	—	—	—	—	—	—	—	—
	04/30/92	—	—	—	—	—	—	—	—
	11/02/92	—	—	—	—	—	—	—	—
	12/07/92	—	—	—	—	—	—	—	—
	03/29/93	—	—	—	—	—	—	—	—
	07/26/93	—	—	—	—	—	—	—	—
	08/24/93	—	—	—	—	—	—	—	—
	09/22/93	—	—	—	—	—	—	—	—
	10/06/93	—	—	—	—	—	—	—	—
	11/08/93	—	—	—	—	—	—	—	—
	12/07/93	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	—	—	—	—
	07/25/94	—	—	—	—	—	—	—	—
	01/26/95	—	—	—	—	—	—	—	—
	07/26/95	—	—	—	—	—	—	—	—
	01/18/96	—	—	—	—	—	—	—	—
	01/16/97	—	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<---------- ug/L ---------->							
MW5 (cont.)	04/21/97	—	—	—	—	—	—	—	—
	07/09/97	—	—	—	—	—	—	—	—
	10/27/97	—	—	—	—	—	—	—	—
	03/25/98	<2.0	<2.0	<100	—	—	<2.0	<500	5,700
	06/11/98	—	—	—	—	—	—	—	—
	09/10/98	—	—	—	—	—	—	—	—
	12/15/98	—	—	—	—	—	—	—	—
	03/09/99	—	—	—	—	—	—	—	—
	06/28/99	—	—	—	—	—	—	—	—
	09/21/99	—	—	—	—	—	—	—	—
	12/27/99	—	—	—	—	—	—	—	—
	03/27/00	—	—	—	—	—	—	—	—
	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/26/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—
	06/29/01	—	—	—	—	—	—	—	—
	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/01/04	—	—	—	—	—	—	—	—
	12/02/03	—	—	—	—	—	—	—	—
	03/23/04	<0.50	<0.50	49	<0.50	<0.50	<0.50	—	—
	06/16/04	—	—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**48.5**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW6	06/22/88	—	—	—	—	—	—	—	—
	09/08/88	—	—	—	—	—	—	—	—
	01/26/89	—	—	—	—	—	—	—	—
	03/27/89	—	—	—	—	—	—	—	—
	04/25/89	—	—	—	—	—	—	—	—
	07/26/89	—	—	—	—	—	—	—	—
	10/24/89	—	—	—	—	—	—	—	—
	12/18/89	—	—	—	—	—	—	—	—
	01/26/90	—	—	—	—	—	—	—	—
	02/18/90	—	—	—	—	—	—	—	—
	03/13/90	—	—	—	—	—	—	—	—
	04/19/90	—	—	—	—	—	—	—	—
	07/26/90	—	—	—	—	—	—	—	—
	10/11/90	—	—	—	—	—	—	—	—
	04/23/91	—	—	—	—	—	—	—	—
	07/25/91	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	—	—	—	—
	01/20/92	—	—	—	—	—	—	—	—
	04/30/92	—	—	—	—	—	—	—	—
	11/02/92	—	—	—	—	—	—	—	—
	12/07/92	—	—	—	—	—	—	—	—
	03/29/93	—	—	—	—	—	—	—	—
	06/16/93	—	—	—	—	—	—	—	—
	06/29/93	—	—	—	—	—	—	—	—

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ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<--				ug/L			-->
MW6 (cont.)	07/26/93	---	---	---	---	---	---	---	---
	08/24/93	---	---	---	---	---	---	---	---
	09/22/93	---	---	---	---	---	---	---	---
	10/06/93	---	---	---	---	---	---	---	---
	11/08/93	---	---	---	---	---	---	---	---
	12/07/93	---	---	---	---	---	---	---	---
	01/19/94	---	---	---	---	---	---	---	---
	07/25/94	---	---	---	---	---	---	---	---
	01/26/95	---	---	---	---	---	---	---	---
	07/26/95	---	---	---	---	---	---	---	---
	01/18/96	---	---	---	---	---	---	---	---
	01/16/97	---	---	---	---	---	---	---	---
	04/21/97	---	---	---	---	---	---	---	---
	07/09/97	---	---	---	---	---	---	---	---
	10/27/97	---	---	---	---	---	---	---	---
	03/25/98	---	---	---	---	---	---	---	---
	06/11/98	---	---	---	---	---	---	---	---
	09/10/98	---	---	---	---	---	---	---	---
	12/15/98	---	---	---	---	---	---	---	---
	03/09/99	---	---	---	---	---	---	---	---
	06/28/99	---	---	---	---	---	---	---	---
	09/21/99	---	---	---	---	---	---	---	---
	12/27/99	---	---	---	---	---	---	---	---
	03/27/00	---	---	---	---	---	---	---	---
	06/13/00	---	---	---	---	---	---	---	---
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	---	---	---	---	---	---	---	---
	12/27/00	---	---	---	---	---	---	---	---
	03/26/01	---	---	---	---	---	---	---	---
	06/29/01	---	---	---	---	---	---	---	---
	09/24/01	---	---	---	---	---	---	---	---
	12/26/01	---	---	---	---	---	---	---	---
	3/26/02k	---	---	---	---	---	---	---	---
	6/24/02k	---	---	---	---	---	---	---	---
	09/23/02	---	---	---	---	---	---	---	---
	12/31/02	---	---	---	---	---	---	---	---
	03/28/03	---	---	---	---	---	---	---	---
	06/05/03	---	---	---	---	---	---	---	---
	09/09/03	---	---	---	---	---	---	---	---
	12/01/04	---	---	---	---	---	---	---	---
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---	---
	06/16/04	c	c	c	c	c	c	c	c
	09/15/04r	---	---	---	---	---	---	---	---
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW7	08/12/88	---	---	---	---	---	---	---	---
	09/02/88	---	---	---	---	---	---	---	---
	01/26/89	---	---	---	---	---	---	---	---
	03/27/89	---	---	---	---	---	---	---	---
	04/25/89	---	---	---	---	---	---	---	---
	07/26/89	---	---	---	---	---	---	---	---
	10/24/89	---	---	---	---	---	---	---	---
	12/18/89	---	---	---	---	---	---	---	---
	01/26/90	---	---	---	---	---	---	---	---
	02/18/90	---	---	---	---	---	---	---	---
	03/13/90	---	---	---	---	---	---	---	---
	04/19/90	---	---	---	---	---	---	---	---
	07/26/90	---	---	---	---	---	---	---	---

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ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<--				ug/L			-->
MW7 (cont.)	10/11/90	—	—	—	—	—	—	—	—
	04/23/91	—	—	—	—	—	—	—	—
	07/25/91	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	—	—	—	—
	01/20/92	—	—	—	—	—	—	—	—
	04/30/92	—	—	—	—	—	—	—	—
	11/02/92	—	—	—	—	—	—	—	—
	12/07/92	—	—	—	—	—	—	—	—
	03/29/93	—	—	—	—	—	—	—	—
	06/16/93	—	—	—	—	—	—	—	—
	07/26/93	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	—	—	—	—
	07/25/94	—	—	—	—	—	—	—	—
	01/26/95	—	—	—	—	—	—	—	—
	07/26/95	—	—	—	—	—	—	—	—
	01/18/96	—	—	—	—	—	—	—	—
	01/16/97	—	—	—	—	—	—	—	—
	04/21/97	—	—	—	—	—	—	—	—
	07/09/97	—	—	—	—	—	—	—	—
	10/27/97	—	—	—	—	—	—	—	—
	03/25/98	<2.0	<2.0	<100	—	—	<2.0	<500	—
	06/11/98	—	—	—	—	—	—	—	—
	09/10/98	—	—	—	—	—	—	—	—
	12/15/98	—	—	—	—	—	—	—	—
	03/09/99	—	—	—	—	—	—	—	—
	06/28/99	—	—	—	—	—	—	—	—
	09/21/99	—	—	—	—	—	—	—	—
	12/27/99	—	—	—	—	—	—	—	—
	03/27/00	—	—	—	—	—	—	—	—
	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—
	06/29/01	—	—	—	—	—	—	—	—
	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/01/04	—	—	—	—	—	—	—	—
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—	—
	06/16/04	—	—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW8	08/12/88	—	—	—	—	—	—	—	—
	09/02/88	—	—	—	—	—	—	—	—
	01/26/89	—	—	—	—	—	—	—	—
	03/27/89	—	—	—	—	—	—	—	—
	04/25/89	—	—	—	—	—	—	—	—
	07/26/89	—	—	—	—	—	—	—	—
	10/24/89	—	—	—	—	—	—	—	—
	01/26/90	—	—	—	—	—	—	—	—
	04/19/90	—	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<--------				ug/L			-------->
MW8 (cont.)	07/26/90	---	---	---	---	---	---	---	---
	10/11/90	---	---	---	---	---	---	---	---
	04/23/91	---	---	---	---	---	---	---	---
	07/25/91	---	---	---	---	---	---	---	---
	10/03/91	---	---	---	---	---	---	---	---
	01/20/92	---	---	---	---	---	---	---	---
	04/30/92	---	---	---	---	---	---	---	---
	11/02/92	---	---	---	---	---	---	---	---
	12/07/92	---	---	---	---	---	---	---	---
	03/29/93	---	---	---	---	---	---	---	---
	06/16/93	---	---	---	---	---	---	---	---
	07/26/93	---	---	---	---	---	---	---	---
	01/19/94	---	---	---	---	---	---	---	---
	07/25/94	---	---	---	---	---	---	---	---
	01/26/95	---	---	---	---	---	---	---	---
	07/26/95	---	---	---	---	---	---	---	---
	01/18/96	---	---	---	---	---	---	---	---
	01/16/97	---	---	---	---	---	---	---	---
	04/21/97	---	---	---	---	---	---	---	---
	07/09/97	---	---	---	---	---	---	---	---
	10/27/97	---	---	---	---	---	---	---	---
	03/25/98	<2.0	<2.0	<100	---	---	<2.0	<500	---
	06/11/98	---	---	---	---	---	---	---	---
	09/10/98	---	---	---	---	---	---	---	---
	12/15/98	---	---	---	---	---	---	---	---
	03/09/99	---	---	---	---	---	---	---	---
	06/28/99	---	---	---	---	---	---	---	---
	09/21/99	---	---	---	---	---	---	---	---
	12/27/99	---	---	---	---	---	---	---	---
	03/27/00	---	---	---	---	---	---	---	---
	06/13/00	---	---	---	---	---	---	---	---
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	---	---	---	---	---	---	---	---
	12/27/00	---	---	---	---	---	---	---	---
	03/26/01	---	---	---	---	---	---	---	---
	06/29/01	---	---	---	---	---	---	---	---
	09/24/01	---	---	---	---	---	---	---	---
	12/26/01	---	---	---	---	---	---	---	---
	03/26/02	---	---	---	---	---	---	---	---
	06/24/02	---	---	---	---	---	---	---	---
	09/23/02	---	---	---	---	---	---	---	---
	12/31/02	---	---	---	---	---	---	---	---
	03/28/03	---	---	---	---	---	---	---	---
	06/05/03	---	---	---	---	---	---	---	---
	09/09/03	---	---	---	---	---	---	---	---
	12/01/04	---	---	---	---	---	---	---	---
	12/02/03	---	---	---	---	---	---	---	---
	03/23/04	<0.50	<0.50	16.4	<0.50	<0.50	<0.50	---	---
	06/16/04	---	---	---	---	---	---	<50.0	---
	09/15/04r	---	---	---	---	---	---	---	---
	12/15/04	**<0.50**	**<0.50**	**14.4**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW9	08/12/88	---	---	---	---	---	---	---	---
	09/02/88	---	---	---	---	---	---	---	---
	01/26/89	---	---	---	---	---	---	---	---
	03/27/89	---	---	---	---	---	---	---	---
	04/25/89	---	---	---	---	---	---	---	---
	07/26/89	---	---	---	---	---	---	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<---------- ug/L ---------- >							
MW9 (cont.)	10/24/89	---	---	---	---	---	---	---	---
	12/18/89	---	---	---	---	---	---	---	---
	01/26/90	---	---	---	---	---	---	---	---
	02/18/90	---	---	---	---	---	---	---	---
	03/13/90	---	---	---	---	---	---	---	---
	04/19/90	---	---	---	---	---	---	---	---
	07/26/90	---	---	---	---	---	---	---	---
	10/11/90	---	---	---	---	---	---	---	---
	04/23/91	---	---	---	---	---	---	---	---
	07/25/91	---	---	---	---	---	---	---	---
	10/03/91	---	---	---	---	---	---	---	---
	01/20/92	---	---	---	---	---	---	---	---
	04/30/92	---	---	---	---	---	---	---	---
	11/02/92	---	---	---	---	---	---	---	---
	12/07/92	---	---	---	---	---	---	---	---
	03/29/93	---	---	---	---	---	---	---	---
	06/16/93	---	---	---	---	---	---	---	---
	07/26/93	---	---	---	---	---	---	---	---
	01/16/94	---	---	---	---	---	---	---	---
	07/25/94	---	---	---	---	---	---	---	---
	01/26/95	---	---	---	---	---	---	---	---
	07/26/95	---	---	---	---	---	---	---	---
	01/18/96	---	---	---	---	---	---	---	---
	01/16/97	---	---	---	---	---	---	---	---
	04/21/97	---	---	---	---	---	---	---	---
	07/09/97	---	---	---	---	---	---	---	---
	10/27/97	---	---	---	---	---	---	---	---
	03/25/98	<2.0	<2.0	<100	---	---	<2.0	<500	---
	06/11/98	---	---	---	---	---	---	---	---
	09/10/98	---	---	---	---	---	---	---	---
	12/15/98	---	---	---	---	---	---	---	---
	03/09/99	---	---	---	---	---	---	---	---
	6/28/99a	---	---	---	---	---	---	---	---
	09/21/99	---	---	---	---	---	---	---	---
	12/27/99	---	---	---	---	---	---	---	---
	03/27/00	---	---	---	---	---	---	---	---
	06/13/00	---	---	---	---	---	---	---	---
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	---	---	---	---	---	---	---	---
	12/27/00	---	---	---	---	---	---	---	---
	03/26/01	---	---	---	---	---	---	---	---
	06/29/01	---	---	---	---	---	---	---	---
	09/24/01	---	---	---	---	---	---	---	---
	12/26/01	---	---	---	---	---	---	---	---
	03/26/02	---	---	---	---	---	---	---	---
	06/24/02	---	---	---	---	---	---	---	---
	09/23/02	---	---	---	---	---	---	---	---
	12/31/02	---	---	---	---	---	---	---	---
	03/28/03	---	---	---	---	---	---	---	---
	06/05/03	---	---	---	---	---	---	---	---
	09/09/03	---	---	---	---	---	---	---	---
	12/02/03	---	---	---	---	---	---	---	---
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---	---
	06/16/04	---	---	---	---	---	---	<50.0	---
	09/15/04r	---	---	---	---	---	---	---	---
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<--------				ug/L			-------->
MW10	08/12/88	—	—	—	—	—	—	—	—
	09/02/88	—	—	—	—	—	—	—	—
	01/26/89	—	—	—	—	—	—	—	—
	03/27/89	—	—	—	—	—	—	—	—
	04/25/89	—	—	—	—	—	—	—	—
	07/26/89	—	—	—	—	—	—	—	—
	10/24/89	—	—	—	—	—	—	—	—
	12/18/89	—	—	—	—	—	—	—	—
	01/26/90	—	—	—	—	—	—	—	—
	02/18/90	—	—	—	—	—	—	—	—
	03/13/90	—	—	—	—	—	—	—	—
	04/19/90	—	—	—	—	—	—	—	—
	07/26/90	—	—	—	—	—	—	—	—
	10/11/90	—	—	—	—	—	—	—	—
	04/23/91	—	—	—	—	—	—	—	—
	07/25/91	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	—	—	—	—
	01/20/92	—	—	—	—	—	—	—	—
	04/30/92	—	—	—	—	—	—	—	—
	11/02/92	—	—	—	—	—	—	—	—
	12/10/92	—	—	—	—	—	—	—	—
	03/29/93	—	—	—	—	—	—	—	—
	07/26/93	—	—	—	—	—	—	—	—
	08/24/93	—	—	—	—	—	—	—	—
	09/22/93	—	—	—	—	—	—	—	—
	10/06/93	—	—	—	—	—	—	—	—
	11/08/93	—	—	—	—	—	—	—	—
	12/07/93	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	—	—	—	—
	07/25/94	—	—	—	—	—	—	—	—
	01/26/95	—	—	—	—	—	—	—	—
	07/26/95	—	—	—	—	—	—	—	—
	01/18/96	—	—	—	—	—	—	—	—
	01/16/97	—	—	—	—	—	—	—	—
	04/21/97	—	—	—	—	—	—	—	—
	07/09/97	—	—	—	—	—	—	—	—
	10/27/97	—	—	—	—	—	—	—	—
	03/25/98	—	—	—	—	—	—	—	—
	06/11/98	—	—	—	—	—	—	—	—
	09/10/98	—	—	—	—	—	—	—	—
	12/15/98	—	—	—	—	—	—	—	—
	03/09/99	—	—	—	—	—	—	—	—
	06/28/99	—	—	—	—	—	—	—	—
	09/21/99	—	—	—	—	—	—	—	—
	12/27/99	—	—	—	—	—	—	—	—
	03/27/00	—	—	—	—	—	—	—	—
	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—
	06/29/01	—	—	—	—	—	—	—	—
	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<---------- ug/L ---------->							
MW10 (cont.)	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/02/03	—	—	—	—	—	—	—	—
	03/23/04	—	—	—	—	—	—	—	—
	06/16/04	—	—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**59.5**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW11	06/27/88	—	—	—	—	—	—	—	—
	09/02/88	—	—	—	—	—	—	—	—
	01/26/89	—	—	—	—	—	—	—	—
	03/27/89	—	—	—	—	—	—	—	—
	04/25/89	—	—	—	—	—	—	—	—
	07/26/89	—	—	—	—	—	—	—	—
	10/24/89	—	—	—	—	—	—	—	—
	12/18/89	—	—	—	—	—	—	—	—
	01/26/90	—	—	—	—	—	—	—	—
	02/18/90	—	—	—	—	—	—	—	—
	03/13/90	—	—	—	—	—	—	—	—
	04/19/90	—	—	—	—	—	—	—	—
	07/26/90	—	—	—	—	—	—	—	—
	10/11/90	—	—	—	—	—	—	—	—
	04/23/91	—	—	—	—	—	—	—	—
	07/25/91	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	—	—	—	—
	01/20/92	—	—	—	—	—	—	—	—
	04/30/92	—	—	—	—	—	—	—	—
	11/02/92	—	—	—	—	—	—	—	—
	12/10/92	—	—	—	—	—	—	—	—
	03/29/93	—	—	—	—	—	—	—	—
	06/16/93	—	—	—	—	—	—	—	—
	07/26/93	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	—	—	—	—
	07/25/94	—	—	—	—	—	—	—	—
	01/26/95	—	—	—	—	—	—	—	—
	07/26/95	—	—	—	—	—	—	—	—
	01/18/96	—	—	—	—	—	—	—	—
	01/16/97	—	—	—	—	—	—	—	—
	04/21/97	—	—	—	—	—	—	—	—
	07/09/97	—	—	—	—	—	—	—	—
	10/27/97	—	—	—	—	—	—	—	—
	03/25/98	—	—	—	—	—	—	—	—
	06/11/98	—	—	—	—	—	—	—	—
	09/10/98	—	—	—	—	—	—	—	—
	12/15/98	—	—	—	—	—	—	—	—
	03/09/99	—	—	—	—	—	—	—	—
	6/28/99a	—	—	—	—	—	—	—	—
	09/21/99	—	—	—	—	—	—	—	—
	12/27/99	—	—	—	—	—	—	—	—
	03/27/00	—	—	—	—	—	—	—	—
	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—

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Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<----------	----------	----------	----------	ug/L ----------	----------	----------	---------->
MW11 (cont.)	06/29/01	—	—	—	—	—	—	—	—
	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/01/03	—	—	—	—	—	—	—	—
	03/23/04	q	q	q	q	q	q	q	q
	06/16/04	q	q	q	q	q	q	q	q
	09/15/04r	q	q	q	q	q	q	q	q
	12/15/04	**q**	**q**	**q**	**q**	**q**	**q**	**q**	**q**
MW12	06/27/88	—	—	—	—	—	—	—	—
	09/02/88	—	—	—	—	—	—	—	—
	01/26/89	—	—	—	—	—	—	—	—
	03/27/89								
	04/25/89	—	—	—	—	—	—	—	—
	07/26/89	—	—	—	—	—	—	—	—
	10/24/89	—	—	—	—	—	—	—	—
	12/18/89	—	—	—	—	—	—	—	—
	01/26/90	—	—	—	—	—	—	—	—
	02/18/90	—	—	—	—	—	—	—	—
	03/13/90	—	—	—	—	—	—	—	—
	04/19/90	—	—	—	—	—	—	—	—
	07/26/90	—	—	—	—	—	—	—	—
	10/11/90	—	—	—	—	—	—	—	—
	04/23/91	—	—	—	—	—	—	—	—
	07/25/91	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	—	—	—	—
	01/20/92	—	—	—	—	—	—	—	—
	04/30/92	—	—	—	—	—	—	—	—
	11/02/92	—	—	—	—	—	—	—	—
	12/10/92	—	—	—	—	—	—	—	—
	03/29/93	—	—	—	—	—	—	—	—
	06/16/93	—	—	—	—	—	—	—	—
	07/26/93	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	—	—	—	—
	07/25/94	—	—	—	—	—	—	—	—
	01/26/95	—	—	—	—	—	—	—	—
	07/26/95	—	—	—	—	—	—	—	—
	01/18/96	—	—	—	—	—	—	—	—
	01/16/97	—	—	—	—	—	—	—	—
	04/21/97	—	—	—	—	—	—	—	—
	07/09/97	—	—	—	—	—	—	—	—
	10/27/97	—	—	—	—	—	—	—	—
	03/25/98	—	—	—	—	—	—	—	—
	06/11/98	—	—	—	—	—	—	—	—
	09/10/98	—	—	—	—	—	—	—	—
	12/15/98	—	—	—	—	—	—	—	—
	03/09/99	—	—	—	—	—	—	—	—
	06/28/99	—	—	—	—	—	—	—	—
	09/21/99	—	—	—	—	—	—	—	—
	12/27/99	—	—	—	—	—	—	—	—
	03/27/00	—	—	—	—	—	—	—	—

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Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<--				ug/L			-->
MW12 (cont.)	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—
	06/29/01	—	—	—	—	—	—	—	—
	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/01/03	—	—	—	—	—	—	—	—
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—	—
	06/16/04	—	—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**1.00**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50**	**<10,000**
MW13	04/19/90	—	—	—	—	—	—	—	—
	07/26/90	—	—	—	—	—	—	—	—
	10/11/90	—	—	—	—	—	—	—	—
	04/23/91	—	—	—	—	—	—	—	—
	07/25/91	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	—	—	—	—
	01/20/92	—	—	—	—	—	—	—	—
	04/30/92	—	—	—	—	—	—	—	—
	11/02/92	—	—	—	—	—	—	—	—
	12/10/92	—	—	—	—	—	—	—	—
	03/29/93	—	—	—	—	—	—	—	—
	06/16/93	—	—	—	—	—	—	—	—
	07/26/93	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	—	—	—	—
	07/25/94	—	—	—	—	—	—	—	—
	01/26/95	—	—	—	—	—	—	—	—
	07/26/95	—	—	—	—	—	—	—	—
	01/18/96	—	—	—	—	—	—	—	—
	01/16/97	—	—	—	—	—	—	—	—
	04/21/97	—	—	—	—	—	—	—	—
	07/09/97	—	—	—	—	—	—	—	—
	10/27/97	—	—	—	—	—	—	—	—
	03/25/98	—	—	—	—	—	—	—	—
	06/11/98	—	—	—	—	—	—	—	—
	09/10/98	—	—	—	—	—	—	—	—
	12/15/98	—	—	—	—	—	—	—	—
	03/09/99	—	—	—	—	—	—	—	—
	6/28/99a	—	—	—	—	—	—	—	—
	09/21/99	—	—	—	—	—	—	—	—
	12/27/99	—	—	—	—	—	—	—	—
	03/27/00	—	—	—	—	—	—	—	—
	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—
	06/29/01	—	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<--				ug/L			-->
MW13 (cont.)	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/01/03	—	—	—	—	—	—	—	—
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—	—
	06/16/04	—	—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW14	04/19/90	—	—	—	—	—	—	—	—
	07/26/90	—	—	—	—	—	—	—	—
	10/11/90	—	—	—	—	—	—	—	—
	04/23/91	—	—	—	—	—	—	—	—
	07/25/91	—	—	—	—	—	—	—	—
	10/03/91	—	—	—	—	—	—	—	—
	01/20/92	—	—	—	—	—	—	—	—
	04/30/92	—	—	—	—	—	—	—	—
	11/02/92	—	—	—	—	—	—	—	—
	12/10/92	—	—	—	—	—	—	—	—
	03/29/93	—	—	—	—	—	—	—	—
	06/16/93	—	—	—	—	—	—	—	—
	07/26/93	—	—	—	—	—	—	—	—
	01/19/94	—	—	—	—	—	—	—	—
	07/25/94	—	—	—	—	—	—	—	—
	01/26/95	—	—	—	—	—	—	—	—
	07/26/95	—	—	—	—	—	—	—	—
	01/18/96	—	—	—	—	—	—	—	—
	01/16/97	—	—	—	—	—	—	—	—
	04/21/97	—	—	—	—	—	—	—	—
	07/09/97	—	—	—	—	—	—	—	—
	10/27/97	—	—	—	—	—	—	—	—
	03/25/98	—	—	—	—	—	—	—	—
	06/11/98	—	—	—	—	—	—	—	—
	09/10/98	—	—	—	—	—	—	—	—
	12/15/98	—	—	—	—	—	—	—	—
	03/09/99	—	—	—	—	—	—	—	—
	6/28/99a	—	—	—	—	—	—	—	—
	09/21/99	—	—	—	—	—	—	—	—
	12/27/99	—	—	—	—	—	—	—	—
	03/27/00	—	—	—	—	—	—	—	—
	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—
	06/29/01	—	—	—	—	—	—	—	—
	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	Methanol
		<---------- ug/L ---------->							
MW14 (cont.)	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/01/03	—	—	—	—	—	—	—	—
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—	—
	06/16/04	—	—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**59.5**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW15	06/13/00	—	—	—	—	—	—	—	—
	06/16/00	Property transferred to Valero Refining Company							
	09/21/00	—	—	—	—	—	—	—	—
	12/27/00	—	—	—	—	—	—	—	—
	03/26/01	—	—	—	—	—	—	—	—
	06/29/01	—	—	—	—	—	—	—	—
	09/24/01	—	—	—	—	—	—	—	—
	12/26/01	—	—	—	—	—	—	—	—
	03/26/02	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/01/03	—	—	—	—	—	—	—	—
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—	—
	06/16/04	—	—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
RW1	1/16/97 RW1 not sampled 1/16/97 to date. No previous analytical data available.								
	3/26/2002	—	—	—	—	—	—	—	—
	06/24/02	—	—	—	—	—	—	—	—
	09/23/02	—	—	—	—	—	—	—	—
	12/31/02	—	—	—	—	—	—	—	—
	03/28/03	—	—	—	—	—	—	—	—
	06/05/03	—	—	—	—	—	—	—	—
	09/09/03	—	—	—	—	—	—	—	—
	12/02/03	—	—	—	—	—	—	—	—
	03/23/04	—	—	—	—	—	—	—	—
	06/16/04	—	—	—	—	—	—	—	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW16									
	12/01/03	—	—	—	—	—	—	—	—
	12/02/03	—	—	—	—	—	—	—	—
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—	—
	06/16/04	—	—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW17									
	12/01/03	—	—	—	—	—	—	—	—
	12/02/03	—	—	—	—	—	—	—	—
	03/23/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—	—
	06/16/04		—	—	—	—	—	<50.0	—
	09/15/04r	—	—	—	—	—	—	—	—
	12/15/04	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**
MW18	**12/15/04**	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<50.0**	**<10,000**

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Notes:		Data prior to First Quarter 1998 provided by previous consultant.
ug/L	=	Micrograms per liter.
NLPH	=	No liquid-phase hydrocarbons present in well.
TOC	=	Elevation of top of well casing; relative to mean sea level (MSL) in feet.
SUBJ	=	Results of subjective evaluation.
sheen	=	Liquid-phase hydrocarbons present as a sheen.
DTW	=	Depth to water.
Elev.	=	Elevation of groundwater; relative to mean sea level.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 5030/8015 (modified).
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 5030/8015 (modified).
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ND	=	Not detected above the laboratory method reporting limit.
<	=	Less than the stated laboratory method reporting limit.
—	=	Not sampled/Not measured.
a	=	Monitoring well sampled on an annual basis.
b	=	Laboratory analytical chromatogram pattern: unidentified hydrocarbons C9-C24.
c	=	Well inaccessible.
d	=	Previous consultant's data deemed suspect by ERI.
e	=	Diesel-range hydrocarbons detected in bailer blank; result is suspect.
f	=	Analyzed using EPA Method 8260B.
g	=	Artesian well.
h	=	Estimated value between Method Detection Limit and Practical Quantitation Limit.
i	=	Diesel-range hydrocarbons detected; however, laboratory indicates that chromatogram pattern does not resemble diesel fuel.
j	=	TOC elevation not measured according to AB 2886. Groundwater elevation not used in calculated groundwater flow direction and hydraulic gradient.
k	=	Diesel-range hydrocarbons laboratory control data values outside laboratory historical or method prescribed QC limits.
l	=	Surrogate out of range.
m	=	DRO extraction outside holding time.
n	=	Not sampled due to breakage.
o	=	DRO extraction sampled temperature above acceptable range.
p	=	No groundwater recharge after purging.
q	=	No groundwater recharge after purging.
r	=	Sampling date on Chain-of-Custody inadvertantly listed as 09/16/04. The correct sampling date is 09/15/04.
s	=	Groundwater elevation data invalidated; analytical results suspect.

TABLE 2A
CUMULATIVE SOIL SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California
(Page 1 of 2)

Sample ID	Sample Date	Sample Depth (bgs) <.....feet.....>	TPH	Motor Oil	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX
				<---mg/Kg--->								
MW-1		4	13	—	—	—	—	—	—	—	—	ND
		9	ND	—	—	—	—	—	—	—	—	ND
MW-2		9	ND	—	—	—	—	—	—	—	—	ND
		19	ND	—	—	—	—	—	—	—	—	ND
MW-3		4	1000	—	—	—	—	—	—	—	—	82
		9	ND	—	—	—	—	—	—	—	—	ND
MW-4		4	ND	—	—	—	—	—	—	—	—	ND
		9	ND	—	—	—	—	—	—	—	—	ND
MW-5		4	ND	—	—	—	—	—	—	—	—	ND
		9	ND	—	—	—	—	—	—	—	—	ND
MW-6		4	27	—	—	—	—	—	—	—	—	ND
		9	500	—	—	—	—	—	—	—	—	ND
		14	ND	—	—	—	—	—	—	—	—	ND
MW-7		9	ND	—	—	—	—	—	—	—	—	ND
		14	ND	—	—	—	—	—	—	—	—	ND
MW-8		4	7	—	—	—	—	—	—	—	—	ND
		9	ND	—	—	—	—	—	—	—	—	ND
MW-9		9	ND	—	—	—	—	—	—	—	—	ND
		14	ND	—	—	—	—	—	—	—	—	ND
MW-10		4	ND	—	—	—	—	—	—	—	—	ND
		9	ND	—	—	—	—	—	—	—	—	ND
MW-11		9	ND	—	—	—	—	—	—	—	—	ND
MW-12		4	ND	—	—	—	—	—	—	—	—	ND
MW-13		2	ND	—	—	—	—	—	—	—	—	ND
		4	ND	—	—	—	—	—	—	—	—	ND
		5.5	ND	—	—	—	—	—	—	—	—	ND
		7	ND	—	—	—	—	—	—	—	—	ND
		8	ND	—	—	—	—	—	—	—	—	ND
		10	ND	—	—	—	—	—	—	—	—	ND
		11.5	ND	—	—	—	—	—	—	—	—	ND
		12	ND	—	—	—	—	—	—	—	—	ND
		14.5	ND	—	—	—	—	—	—	—	—	ND
		15	ND	—	—	—	—	—	—	—	—	ND
		18	ND	—	—	—	—	—	—	—	—	ND
MW-14		3	ND	—	—	—	—	—	—	—	—	ND
		4.5	ND	—	—	—	—	—	—	—	—	ND
		8.5	ND	—	—	—	—	—	—	—	—	ND
		11	ND	—	—	—	—	—	—	—	—	ND
		14.5	ND	—	—	—	—	—	—	—	—	ND
TP1	12/5/1990	3	—	—	—	1.4	—	<0.005	<0.005	<0.005	0.013	—
TP2	12/5/1990	3	—	—	—	<1.0	—	0.024	<0.005	<0.005	0.085	—
PL1	12/5/1990	3	—	—	—	<1.0	—	<0.005	<0.005	<0.005	<0.005	—
PL2	12/5/1990	3	—	—	<10	1.7	—	<0.005	<0.005	<0.005	0.006	—
PL3	12/5/1990	3	—	—	—	<1.0	—	<0.005	<0.005	<0.005	<0.005	—
PL4	12/5/1990	3	—	—	—	100	—	<0.005	0.3	0.15	0.067	—
PL5	12/5/1990	3	—	—	3300	1300	—	9.3	100	31	150	—
PL6	12/5/1990	3	—	—	—	4.9	—	0.019	0.022	0.020	0.17	—
S-5-B15	6/9/2000	5	—	—	<2	<1	—	0.0033	0.0018	0.004	0.0147	—
S-3-B17	6/9/2000	3	—	—	<2	<1	—	<0.001	0.0012	0.0079	0.051	—
GP1-7	10/22/2001	7	—	—	<5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—
GP2-10	10/22/2001	10	—	—	<5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—
GP2-15	10/22/2001	15	—	—	<5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—
GP3-5	10/23/2001	5	—	—	<5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—
GP4-5	10/23/2001	5	—	—	<5.0	<1.0	<0.0050	0.013/0.061a	<0.0050	<0.0050	<0.0050	—
GP4-20	10/24/2001	20	—	—	<5.0	<1.0	<0.0050	<0.0050/0.0068a	<0.0050	<0.0050	<0.0050/0.0068a	—

TABLE 2A
CUMULATIVE SOIL SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Sample ID	Sample Date	Sample Depth (bgs) <.....feet.....>	TPH	Motor Oil	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX
							mg/Kg					
GP5-4	10/23/2001	4	—	—	120b	1,400	<0.0050	4.4/1.0ae	27/2.2ae	17/2.6ae	84/9.1ae	—
GP5-4f	10/23/2001	4	—	—	—	—	<5.0	10a	56a	32a	176a	—
GP5-5	10/23/2001	5	—	<10	61c	350	<0.0050	0.57/1.1ae	4.5/2.0ae	3.8/1.9ae	21/6.5ae	—
GP5-5f	10/23/2001	5	—	—	—	—	<5.0	<5.0a	26a	20a	104a	—
GP6-5	10/23/2001	5	—	—	<5.0	<1.0	<0.0050	0.005/0.22ae	<0.0050/0.056ae	0.0066/0.18ae	0.013/0.0366ae	—
GP6-5f	10/23/2001	5	—	—	—	—	<0.0050	0.169	0.037a	0.16a	0.25a	—
GP7-1	10/24/2001	1	—	55	7.5d	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—
GP7-13	10/24/2001	13	—	—	<5.0	<1.0	0.23e/0.24	<0.0050	<0.0050	<0.0050	<0.0050	—
GP8-1	10/25/2001	1	—	—	<5.0	<1.0	0.38e/0.37	<0.0050	<0.0050	<0.0050	<0.0050	—
GP8-10	10/25/2001	10	—	—	<5.0	<1.0	0.30e/0.36	<0.0050	<0.0050	<0.0050	<0.0050	—
GP8-15	10/25/2001	15	—	—	<5.0	<1.0	0.54e/0.70	<0.0050	<0.0050	<0.0050	<0.0050	—
GP8-20	10/25/2001	20	—	—	<5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—

Notes:

mg/Kg	=	Milligrams per kilogram.
TPH	=	Total petroleum hydrocarbons.
Motor Oil	=	Motor oil analyzed using EPA Method 8015M.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015M.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015M.
MTBE	=	MTBE analyzed using EPA Method 8260B.
Total BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.
<	=	Less than the stated laboratory method reporting limit.
ND	=	Not detected at or above laboratory reporting limit.
—	=	Not sampled.
bgs	=	Below ground surface.
a	=	BTEX analyzed using EPA Method 8260B.
b	=	Detected results for Diesel Range Organics, however Laboratory indicates that chromatogram patterns do not resemble a diesel pattern.
c	=	Detected results for Diesel Range Organics, however Laboratory indicates that chromatogram patterns do not resemble a diesel pattern. The pattern most closely resembles gasoline.
d	=	Detected results for Diesel Range Organics, however Laboratory indicates that chromatogram patterns do not resemble a diesel pattern. The pattern most closely resembles that of a heavier hydrocarbon mix, most probabley motor oil.
e	=	The concentration indicated for this anlayte is an estimated value above the calibration range of the instrument.
f	=	Sample was re-run as MSL for over range compounds past holding time.

TABLE 2B
ADDITIONAL CUMULATIVE SOIL SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Sample ID	Sample Date	Sample Depth Feet bgs	TAME	ETBE	DIPE	TBA	1,2-DCA	EDB	Bromomethane	2-Butanone	Napthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trichlorobenzene	Isopropyl-bezene	n-Propylbezene	Acetone
			<— mg/Kg —>														
GP1-7	10/22/2001	7	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP2-10	10/22/2001	10	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP2-15	10/22/2001	15	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP3-5	10/23/2001	5	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP4-5	10/23/2001	5	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP4-20	10/24/2001	20	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	0.0054	<0.010	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP5-4	10/23/2001	4	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	0.0055	<0.010	1.1a	3.2a	1.8a	<0.0050	0.65a	1.1a	4.0a
GP5-4b	10/23/2001	4	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0	<10	13	83	26	<5.0	<5.0	12	<50
GP5-5	10/23/2001	5	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	0.0056	<0.010	1.5a	1.7a	1.0a	<0.0050	0.30a	0.62a	<0.050
GP5-5b	10/23/2001	5	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0	<10	8.3	49	15	<5.0	<5.0	7.3	<50
GP6-5	10/23/2001	5	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	0.018	0.13	0.19	0.015	<0.0050	0.011	0.025	0.054
GP6-5b	10/23/2001	5	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	0.0053	0.015	0.052	0.14	0.0090	<0.0050	0.010	0.021	<0.050
GP7-1	10/24/2001	1	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	0.019	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.13
GP7-13	10/24/2001	13	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP8-1	10/25/2001	1	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP8-10	10/25/2001	10	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP8-15	10/25/2001	15	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
GP8-20	10/25/2001	20	<0.0050	<0.0050	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050

Notes:

mg/Kg	=	Milligrams per kilogram.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethene analyzed using EPA Method 8260B.
EDB	=	Ethylene dibromide analyzed using EPA Method 8260B.
Bromomethane	=	Bromomethane analyzed using EPA Method 8260B.
2-Butanone	=	2-Butanone analyzed using EPA Method 8260B.
Napthalene	=	Napthalene analyzed using EPA Method 8260B.
1,2,4-Trimethylbenzene	=	1,2,4-Trimethylbenzene analyzed using EPA Method 8260B.
1,3,5-Trimethylbenzene	=	1,3,5-Trimethylbenzene analyzed using EPA Method 8260B.
1,2,4-Trichlorobenzene	=	1,2,4-Trichlorobenzene analyzed using EPA Method 8260B.
Isopropylbezene	=	Isopropylbezene analyzed using EPA Method 8260B.
n-Propylbezene	=	n-Propylbezene analyzed using EPA Method 8260B.
Acetone	=	Acetone analyzed using EPA Method 8260B.
<	=	Less then the stated laboratory method reporting limit.
—	=	Not sampled.
bgs	=	Below ground surface.
a	=	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
b	=	Sample was re-run as MLS for over range compounds past holding time.

TABLE 3
COMPARISON OF REPRESENTATIVE CONCENTRATIONS
TO GROUNDWATER CLEANUP OBJECTIVES
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

COC	Representative Concentration	Current Concentration	Cleanup Objective	Primary MCL
	<.....ug/L.....>			
TPHg	11400	9120	—	—
TPHd	1140	1110	—	—
B	918	705	1	1
T	292	286	—	150
E	1010	521	680	300
X	1100	709	1750	1750
MTBE	256	43.2	—	13

Notes:

Representative Concentration	=	Maximum concentration detected in groundwater during the last four monitoring and sampling events.
Current Concentration	=	Maximum concentration detected during the 12/1504 monitoring and sampling event.
Cleanup Objective	=	Water quality objectives for groundwater from Table 3-2 of the Regional Water Quality Control Board Basin Plan.
Primary MCL	=	California Primary MCL.
ug/L	=	Micrograms per liter.
TPHd	=	Total petroleum hydrocarbons as diesel.
TPHg	=	Total petroleum hydrocarbons as gasoline.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes.
MTBE	=	Methyl tertiary butyl ether.
—	=	Not Applicable.

TABLE 4
SUMMARY OF MASS CALCULATION OF DISSOLVED COCs
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

COC	Approximate Plume Area (ft^2)	Estimated Volume of Impacted Groundwater (ft^3)	COC Mass	
			mg	lbs
On-Site				
TPHd	377,991	43,200	1,912,163	4.22
TPHg	215,679	24,650	2,357,839	5.2
MTBE	188,991	21,600	190,303	0.42
Benzene	102,366	11,700	47,421	0.1
Off-Site				
TPHd	33,800	3,600	873,826	1.9
TPHg	44,825	3,600	8,115,376	17.9
MTBE	0	3,600	7,207	0.02
Benzene	0	3,600	627,339	1.4

Notes:

COC	= Chemical of Concern.
TPHd	= Total petroleum hydrocarbons as diesel.
TPHg	= Total petroleum hydrocarbons as gasoline.
MTBE	= Methyl tertiary butyl ether.
mg	= Micrograms.
lbs	= Pounds.

TABLE 5
NATURAL ATTENUDATION SAMPLING DATA
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California
(Page 1 of 1)

Well ID # (TOC)	Sample Location in Relation to Area of Dissolved Hydrocarbon and MTBE Impact	Sampling Date	DTW	Elev.	Physical Parameters: Temperature degrees F	pH pH units	Conductivity microsiemens	ORP millivolts	TDS µg/L	Nutrients: Ammonia-Nitrogen	Ortho-phosphate	Total Nitrogen	Total Phosphate	TKN	Electron Acceptors: Dissolved Oxygen	Nitrate as NO3	Nitrite as N	Sulfate	By-Products: Carbon Dioxide	Ferrous Iron	Sulfide	Methane
										< mg/L >											< µg/L >	
MW1	Inside - Crossgradient				21.6	486	7.14	60.9	—	—	—	—	—	—	1.24	—	—	—	125	0.92	—	—
MW2	Outside - Crossgradient	12/15/04			19.4	480	9.34	53.7	440	<0.25	0.17	1.1	0.36	<0.50	1.31	3.3	1.1	25	123	0.05	<1.0	<0.0010
MW3	Inside - Center	12/15/04			16.2	512	7.23	-59.9	400	<0.25	0.12	1.2	0.35	0.76	0.85	<0.50	0.42	4.7	118	3.3	<1.0	2.8
MW4	Outside - Upgradient	12/15/04			21.3	403	9.16	183.8	330	<0.25	0.28	1.6	0.32	<0.50	1.12	6.2	1.6	24	70	0.51	<1.0	<0.0010
MW5	Inside - Center	12/15/04			15.8	499	7.25	-45.9	380	<0.25	0.12	<1.0	0.30	<0.50	2.3	<0.50	0.34	1.0	175	1.83	1.9	1.6
MW6	Outside - Upgradient	12/15/04			19.5	532	6.95	57.4	—	—	—	—	—	—	—	—	—	—	110	0.19	—	—
MW7	Outside - Upgradient	12/15/04			20.8	506	7.06	170	—	—	—	—	—	—	1.06	—	—	—	118	0	—	—
MW8	Inside - Crossgradient	12/15/04			21.7	488	6.97	45	710	<0.25	0.31	1.1	0.35	<0.50	3.8	3.0	1.1	17	140	0.12	<1.0	<0.0010
MW9	Outside - Crossgradient	12/15/04			21.1	491	6.83	173.9	—	—	—	—	—	—	1.45	—	—	—	165	0	—	—
MW10	Inside - Center	12/15/04			18.7	504	8.68	64.8	480	<0.25	0.29	<1.0	0.32	<0.50	2.46	<0.50	0.3	19	147	2.94	<1.0	0.97
MW12	Outside - Crossgradient	12/15/04			18.4	366	9.84	60.4	310	<0.25	0.11	<1.0	0.15	<0.50	1.83	2.1	0.82	19	80	0	<1.0	<0.0010
MW13	Outside - Downgradient	12/15/04			21.5	278	7.23	125.2	—	—	—	—	—	—	2.88	—	—	—	60	0.13	—	—
MW14	Outside - Crossgradient	12/15/04			21	490	8.97	149.2	370	<0.25	0.7	1.1	0.26	<0.50	1.47	2.8	1.1	3.3	115	0.3	<1.0	<0.0010
MW15	Inside - Leading Edge	12/15/04			17.4	516	8.55	80.6	380	<0.25	0.14	<1.0	0.87	<0.50	2.15	<0.50	0.37	8.2	145	0.36	<1.0	<0.0010
MW16	Deeper Sediments Downgradient	12/15/04			16.9	400	7.53	66.8	—	—	—	—	—	—	—	—	—	—	147	1.27	—	—
MW17	Deeper Sediments Crossgradient	12/15/04			19	453	7.46	120.2	—	—	—	—	—	—	1.87	—	—	—	85	0	—	—
MW18	Deeper Sediments Downgradient	12/15/04			20	378	8.95	-55	—	—	—	—	—	—	0.62	—	—	—	57	0	—	—

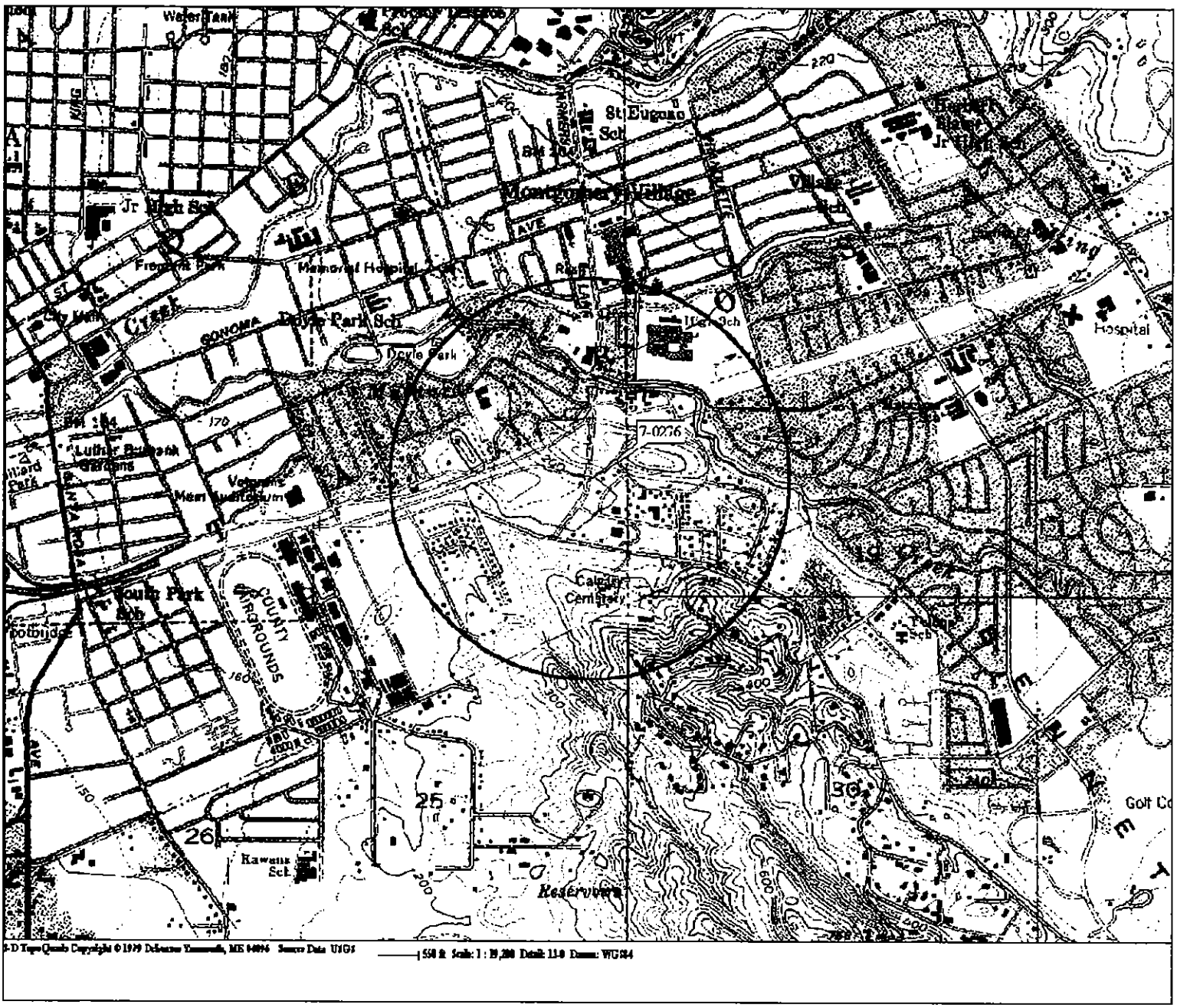
Notes:

TOC	Elevation of top of well casing; relative to mean sea level.
DTW	Depth to water.
Elev.	Elevation of groundwater surface; relative to mean sea level.
Nitrate as NO3	Nitrate as NO3 analyzed using EPA Method 300.0.
Nitrite as N	Nitrite as N analyzed using EPA Method 300.0
Sulfate	Sulfate as SO_4 analyzed using EPA Method 300.0.
Ortho-phosphate	Phosphate (Ortho) as P analyzed using EPA Method 300.0.
Nitrogen	Nitrogen (Total) analyzed using EPA Method SM 4500-N.
Phosphorous	Phosphorous analyzed using EPA Method 365.3
TDS	Total dissolved solids analyzed using EPA Method 160.0.
Ammonia-Nitrogen	Ammonia as N analyzed using EPA Method 350.1.
Methane	Methane as CH_4 analyzed using EPA Method RSK-175 modified.
Sulfide	Sulfide as SO_2 analyzed using EPA Method 376.1.
TKN	Total Kjeldahl Nitrogen analyzed using EPA Method 351.2.
Carbon dioxide	Carbon dioxide as CO_2 analyzed in the field using a CO_2 titration kit.
Ferrous Iron (Fe^{+1})	Ferrous Iron as Fe analyzed in the field using a Colorimetric analysis kit.
DO	Dissolved oxygen analyzed in the field using a YSI model 55 DO meter.
ORP	Oxidation/reduction potential analyzed in the field using an Orion 250A ORP meter.
Conductivity	Measure of the electrical conductive potential of potassium ions in groundwater analyzed in the field using a Hydac meter.
Temperature	Measure of the average molecular kinetic energy of a substance analyzed in the field using a Hydac meter.
pH	Measure of the amount of hydronium ion in a solution measured in the field using a Hydac meter.
<	Less than the indicated detection limit shown by the laboratory.
mg/L	Milligrams per liter.
µg/L	Micrograms per liter.
a	Analyzed from samples collected on 12/4/03.
b	Not measured or sample due to parked vehicle.
—	Not analyzed/Not sampled.

TABLE 6
SUMMARY OF REMEDIAL ALTERNATIVES
Former Exxon Service Station 7-0276
1400 Farmer's Lane
Santa Rosa, California

REMEDIAL OPTION	REPORT SECTION	ESTIMATED COSTS							ESTIMATED DURATION
		Design and Permit	Equipment and Installation	Operation and Maintenance (Per Year)	Operation and Maintenance (Total)	Monitoring (Per Year)	Monitoring (Total)	Remedial Option (Total)	
ON SITE	5.3								
Soil Vapor Extraction	5.3.1	$20,000	$60,000	$54,000	$350,000	$11,000	$55,000	$405,000	5 years
Groundwater Extraction/Treatment	5.3.2	$35,000	$80,000	$61,000	$420,000	$11,000	$55,000	$475,000	5 years
Dual-Phase Extraction	5.3.3	$35,000	$140,000	$84,000	$511,000	$11,000	$44,000	$555,000	4 years
Monitored Natural Attenuation	5.3.4	$0	$0	$0	$0	$8,250	$165,000	$165,000	20 years
OFF SITE	5.4								
Excavation, Natural Attenuation	5.4.1	$15,000		$120,000	$135,000	$8,250	$165,000	$300,000	20 years
DPE, Natural Attenuation	5.4.2	$20,000	$15,000	$60,000	$95,000	$8,250	$165,000	$260,000	20 years
Monitored Natural Attenuation	5.4.3	$0	$20,000	$0	$20,000	$7,260	$217,800	$237,800	30 years

Monitored Natural Attenuation costs decrease over longer periods due to reductions in monitoring schedule and frequency.



2034Topo

EXPLANATION

1/2–mile radius circle

N

APPROXIMATE SCALE

0 0.5 1 mile

SOURCE:
Modified from a map
provided by
DeLorme 3–D TopoQuads

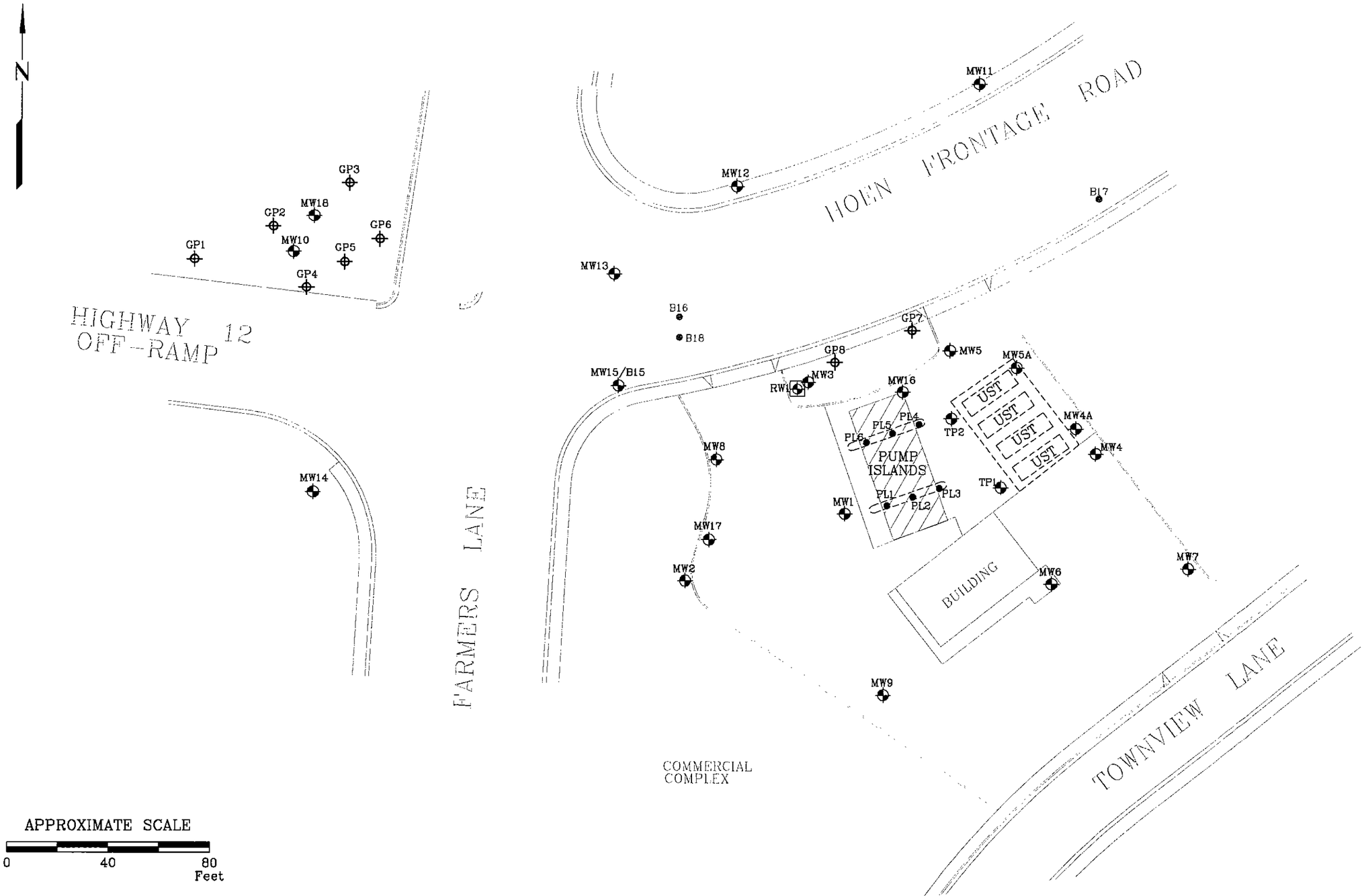
ERI ENVIRONMENTAL RESOLUTIONS, INC.

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7–0276
1400 Farmers Lane
Santa Rosa, California

PROJECT NO. 2034

PLATE 1



APPROXIMATE SCALE

0 40 80 Feet

FN 420340004a_SP

SOURCE: Modified from maps provided by Morrow Surveying

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

MW18 Groundwater Monitoring Well

GP8 Geoprobe

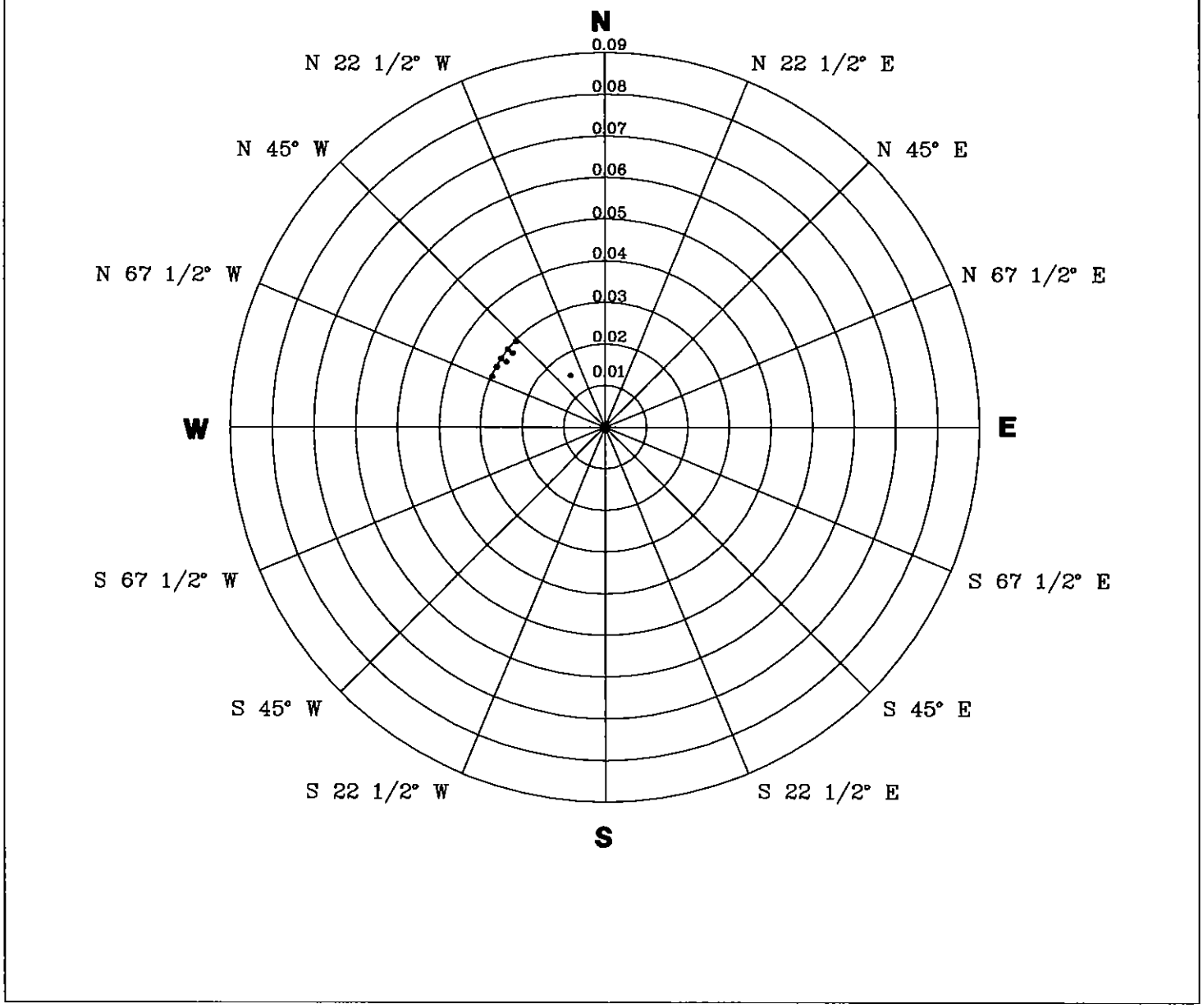
RW1 Recovery Well

B18 Soil Boring

PL6 Product Line Boring

PROJECT NO. 2034

PLATE 2



2034 ROSE

EXPLANATION

N Compass Direction

----- Data Points Shown

Rose diagram developed by evaluating the groundwater gradient direction from the quarterly monitoring data. Each circle on the rose diagram represents the number of monitoring events that the gradient plotted in that 22 1/2 degree sector.

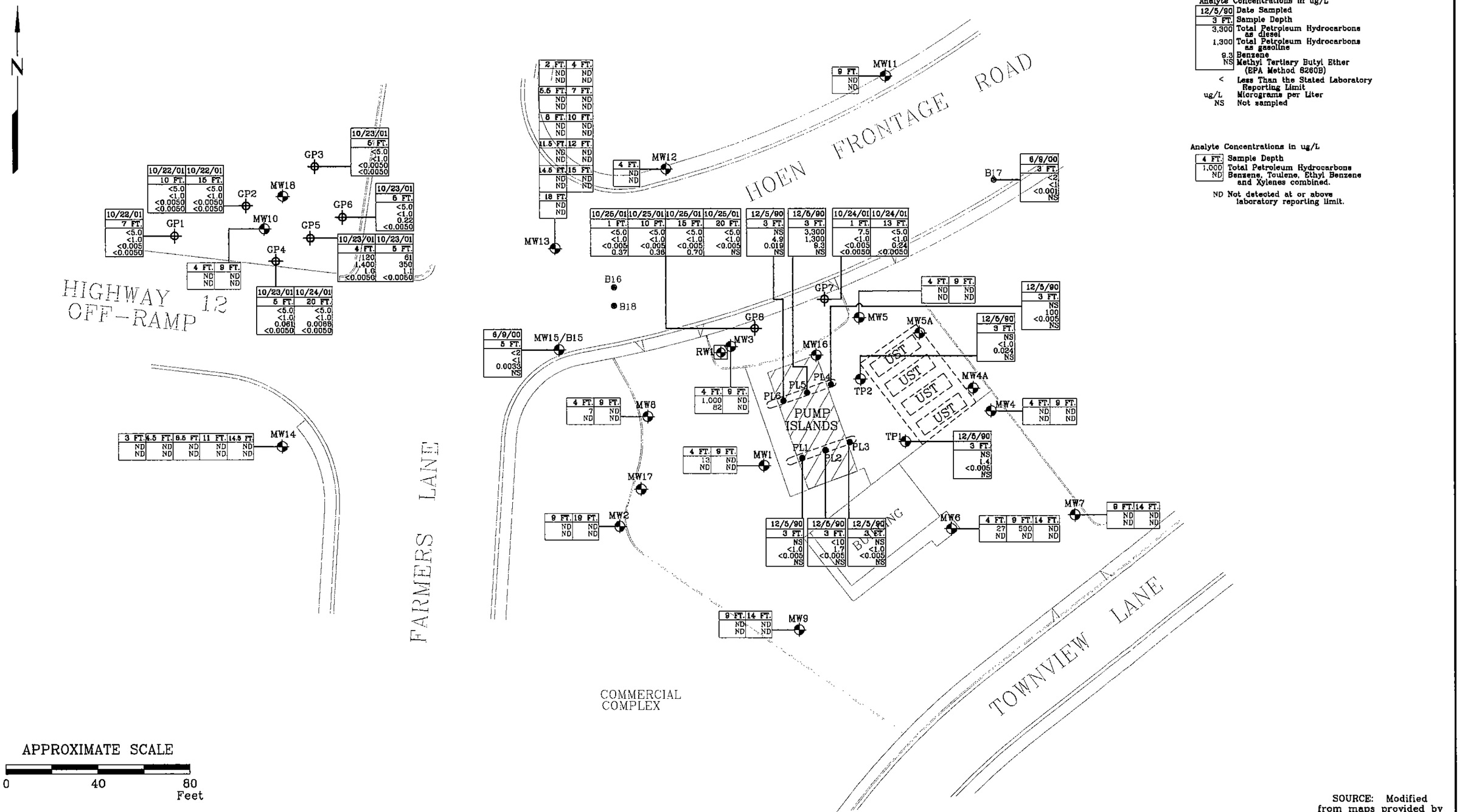
ERI ENVIRONMENTAL RESOLUTIONS, INC.

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM

FORMER EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

PROJECT NO. 2034

PLATE 3



APPROXIMATE SCALE

0 40 80 Feet

FN 420340004a_SP

SOURCE: Modified from maps provided by Morrow Surveying

ENVIRONMENTAL RESOLUTIONS, INC.

RESIDUAL HYDROCARBON CONCENTRATIONS

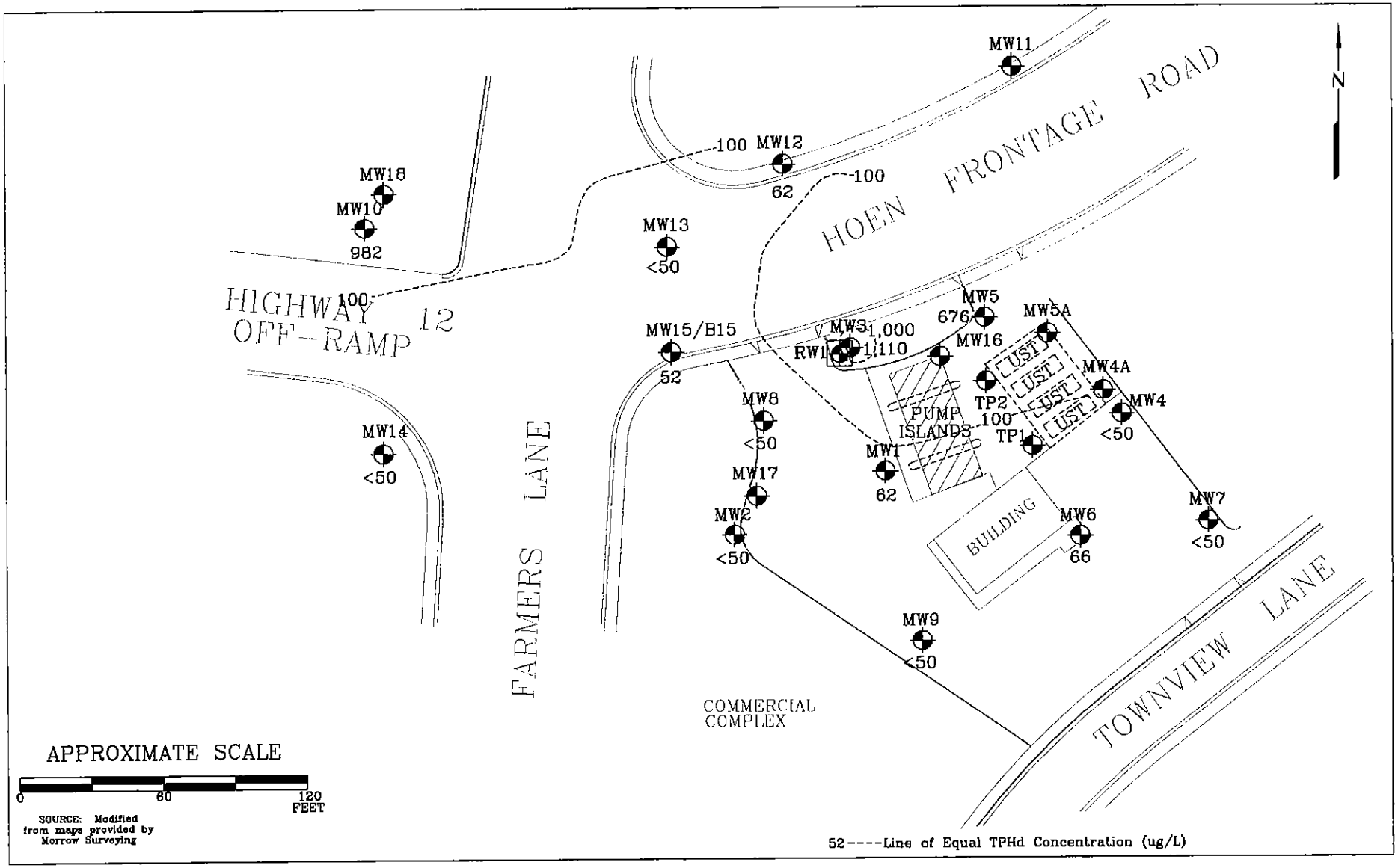
FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

- MW18 — Groundwater Monitoring Well
- GP8 — Geoprobe
- RW1 — Recovery Well
- B18 — Soil Boring
- PL6 — Product Line Boring

PROJECT NO. 2034

PLATE 4



FN 20340004_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

TPHd ISOCONCENTRATION MAP
December 15, 2004
FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

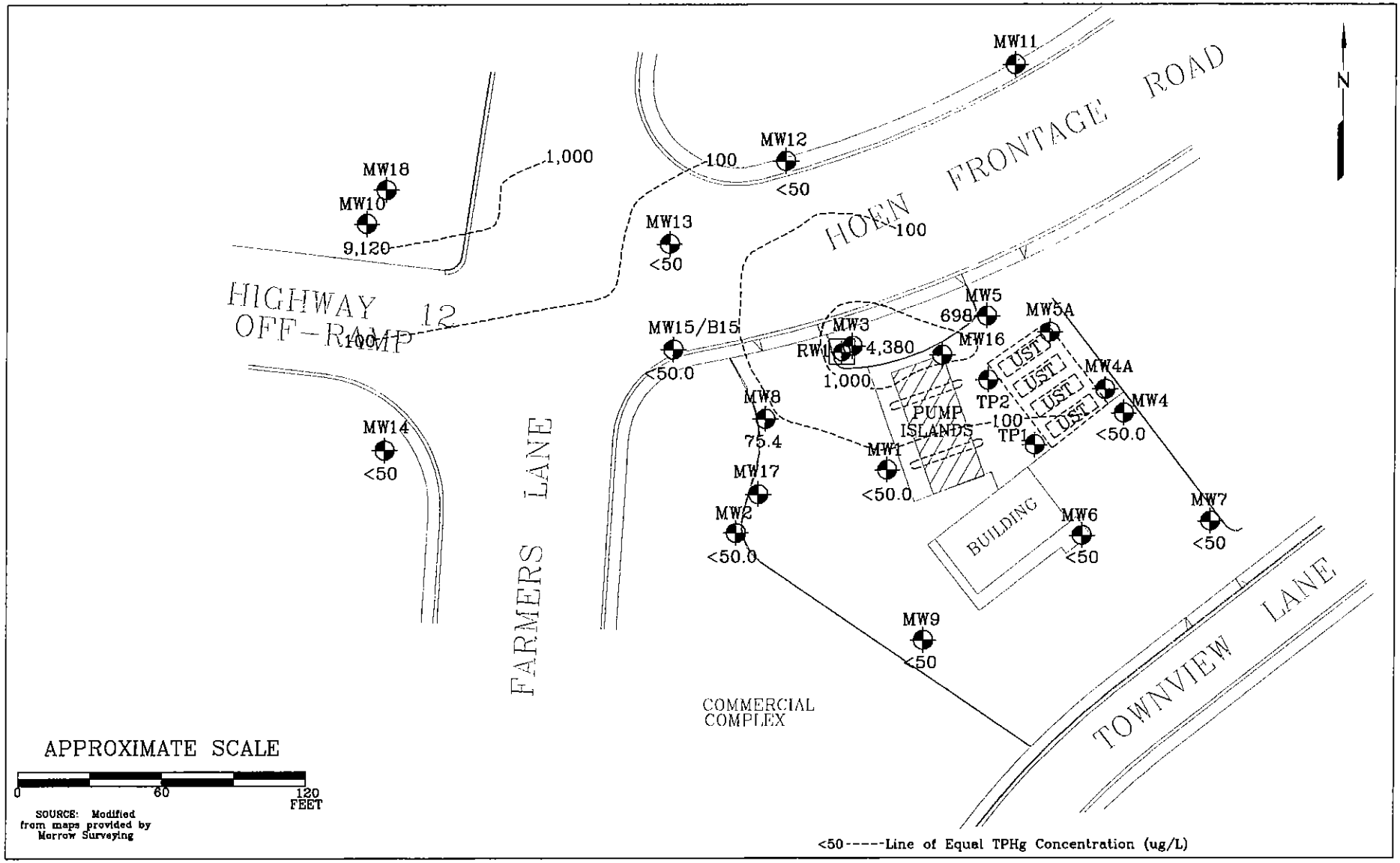
MW15 Groundwater Monitoring Well

52 TPHd concentration (ug/L)

RW1 Recovery Well

PROJECT NO.
2034

PLATE
5



FN 20340004_SP

ENVIRONMENTAL RESOLUTIONS, INC.

TPHg ISOCONCENTRATION MAP
December 15, 2004
FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

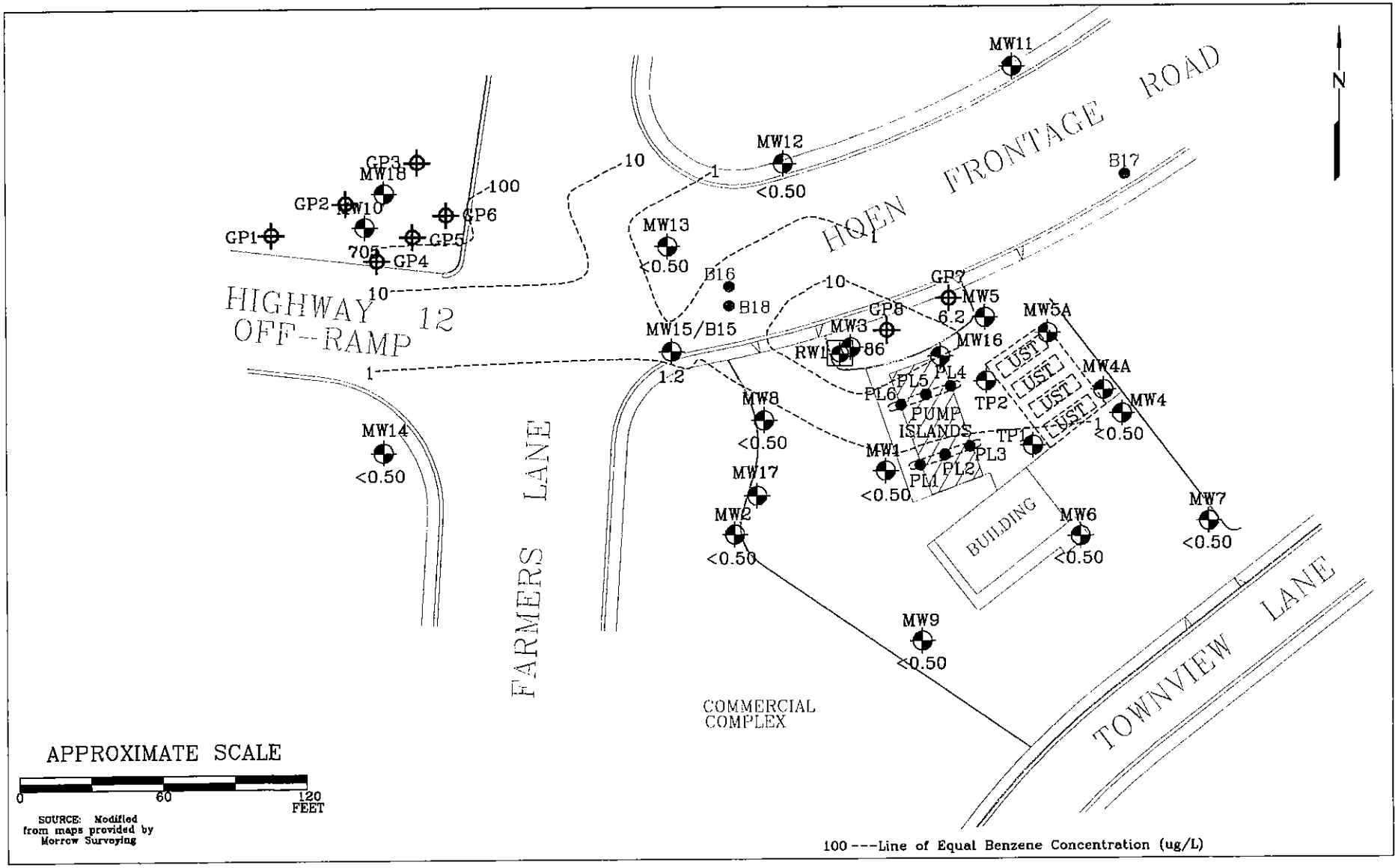
MW14 Groundwater Monitoring Well

<50 TPHg concentration (ug/L)

RW1 Recovery Well

PROJECT NO. 2034

PLATE 6



FN 20340004_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

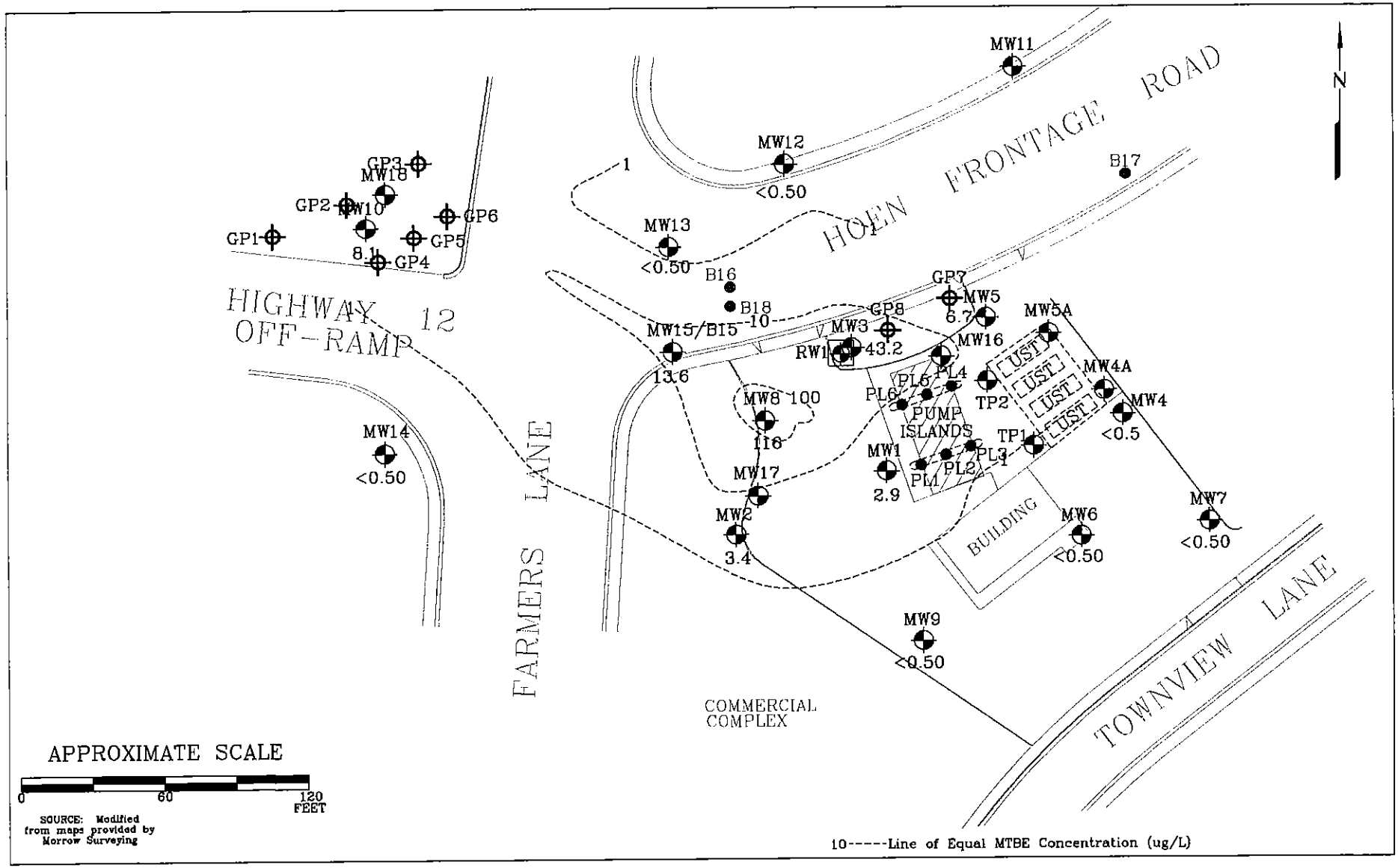
BENZENE ISOCONCENTRATION MAP
December 15, 2004
FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

- MW15 — Groundwater Monitoring Well
- 1.2 — Benzene concentration (ug/L)
- GP8 — Geoprobe
- RW1 — Recovery Well
- B18 — Soil Boring
- PL6 — Product Line Boring

PROJECT NO.
2034

PLATE
7



FN 20340004_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

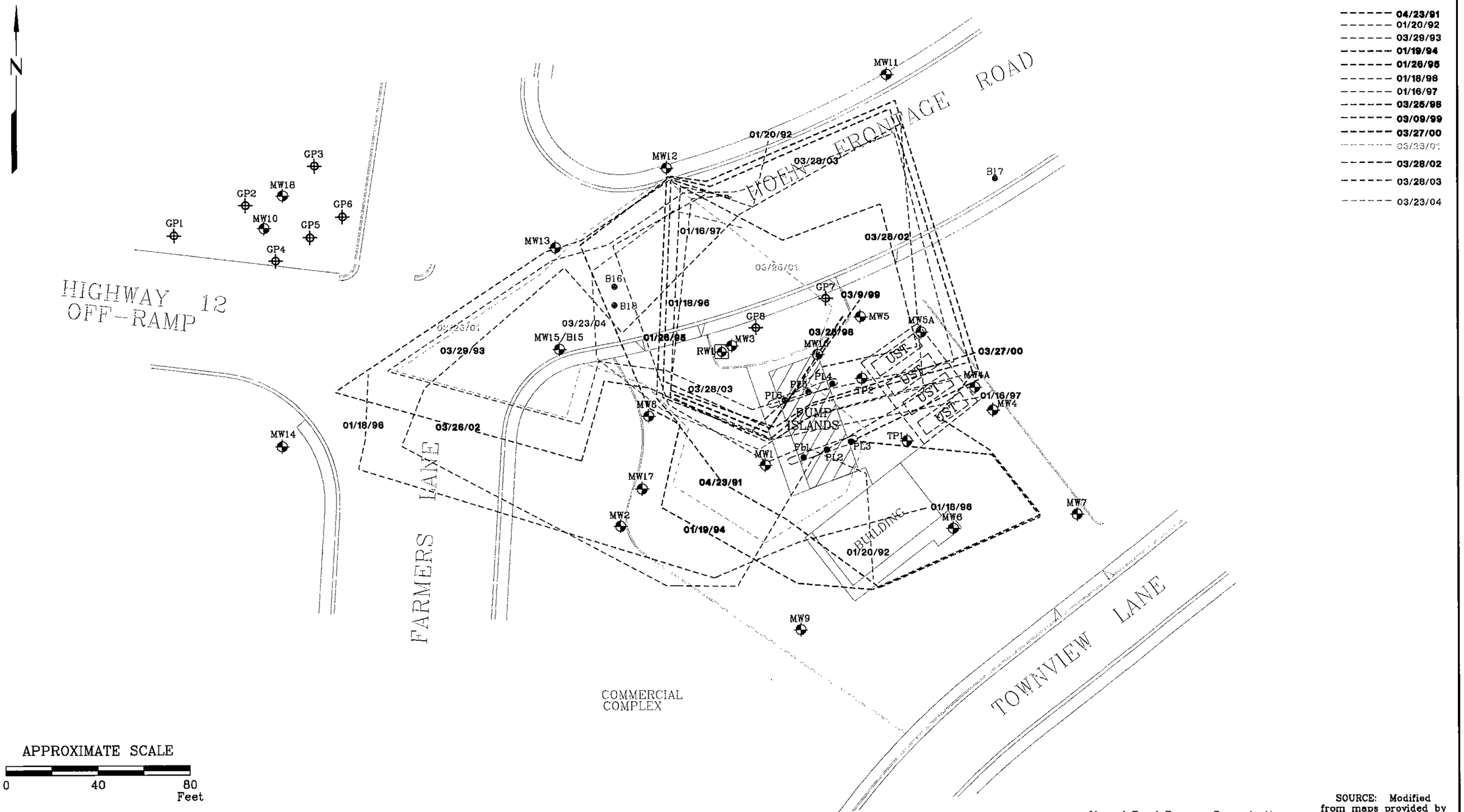
MTBE ISOCONCENTRATION MAP
December 15, 2004
FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

- MW15 — Groundwater Monitoring Well
- 13.6 — MTBE concentration (ug/L)
- GP8 — Geoprobe
- RW1 — Recovery Well
- B18 — Soil Boring
- PL6 — Product Line Boring

PROJECT NO. 2034

PLATE 8



FN 420340004a_SP

ENVIRONMENTAL RESOLUTIONS, INC.

MAP OF TEMPORAL VARIATION - BENZENE

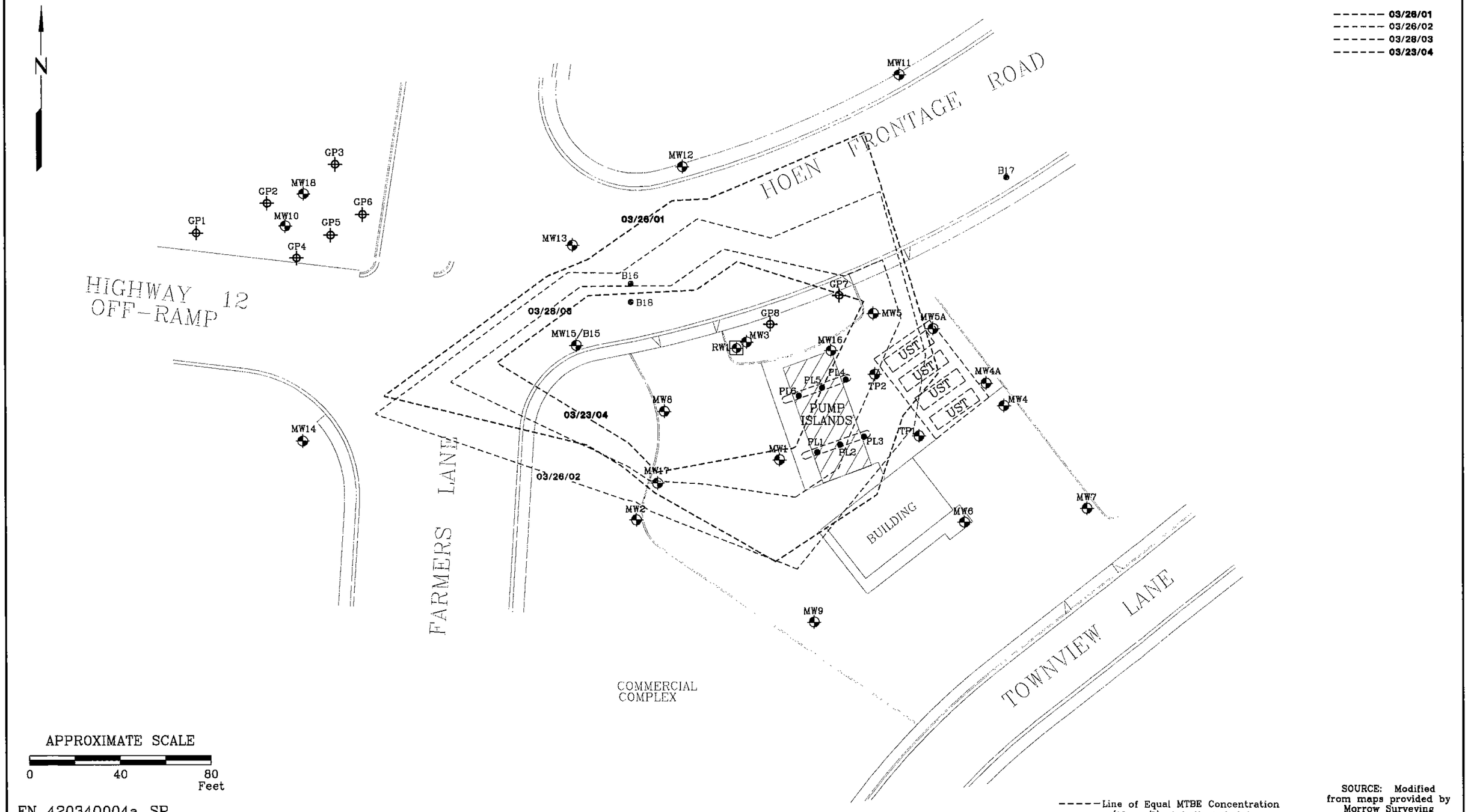
FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

- MW18 — Groundwater Monitoring Well
- RW1 — Recovery Well
- GP8 — Geoprobe
- B18 — Soil Boring
- PL6 — Product Line Boring

PROJECT NO. 2034

PLATE 9



FN 420340004a_SP

SOURCE: Modified from maps provided by Morrow Surveying

ENVIRONMENTAL RESOLUTIONS, INC.

MAP OF TEMPORAL VARIATION - MTBE

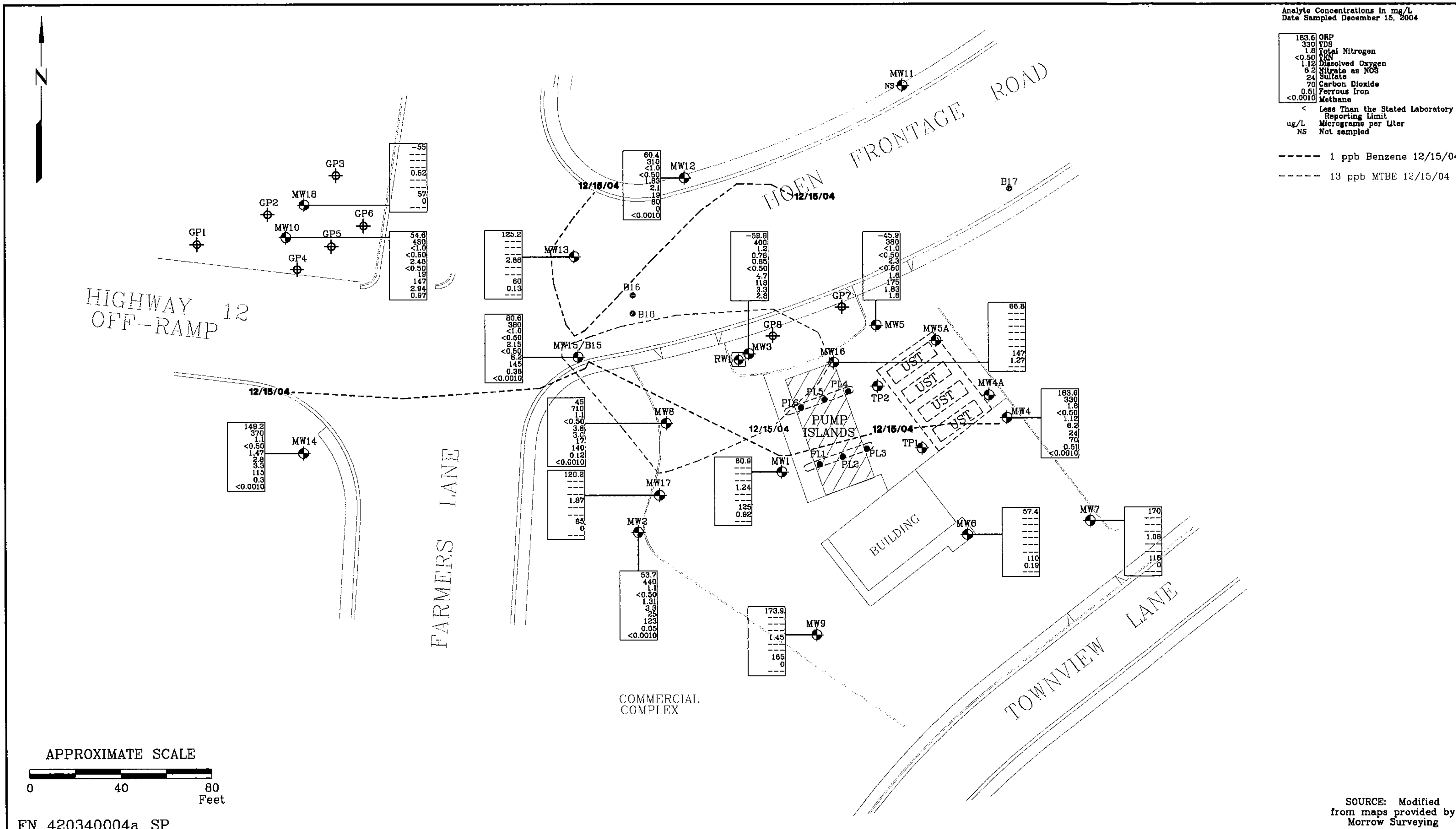
FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

- MW18 — Groundwater Monitoring Well
- GP8 — Geoprobe
- RW1 — Recovery Well
- B18 — Soil Boring
- PL6 — Product Line Boring

PROJECT NO. 2034

PLATE 10


Analyte Concentrations in mg/L
Date Sampled December 15, 2004
183.6 ORP
330 TDS
1.8 Total Nitrogen
<0.50 TKN
1.12 Dissolved Oxygen
6.2 Nitrate as NO3
24 Sulfate
70 Carbon Dioxide
0.51 Ferrous Iron
<0.0010 Methane
< Less Than the Stated Laboratory Reporting Limit
ug/L Micrograms per Liter
NS Not sampled
1 ppb Benzene 12/15/04
13 ppb MTBE 12/15/04
N
HIGHWAY 12 OFF-RAMP
HOEN FRONTAGE ROAD
FARMERS LANE
TOWNVIEW LANE
COMMERCIAL COMPLEX
BUILDING
PUMP ISLANDS
UST
12/15/04
GP1 GP2 GP3 GP4 GP5 GP6 GP7 GP8
MW18: -55 --- --- --- 0.52 --- --- 57 0 ---
MW10: 54.6 480 <1.0 <0.50 2.46 <0.50 19 147 2.94 0.97
MW13: 125.2 --- --- --- 2.88 --- --- 60 0.13 ---
MW12: 60.4 310 <1.0 <0.50 1.83 2.1 19 60 0 <0.0010
MW11 NS
MW15/B15: 80.6 380 <1.0 <0.50 2.15 <0.50 6.2 145 0.36 <0.0010
MW14: 149.2 370 1.1 <0.50 1.47 2.8 3.3 115 0.3 <0.0010
MW3: -58.9 400 1.2 0.76 0.85 <0.50 4.7 118 3.3 2.8
RW1
MW5: -45.9 380 <1.0 <0.50 2.3 <0.50 1.6 175 1.63 1.6
MW5A
MW16: 66.8 --- --- --- --- --- --- 147 1.27 ---
MW4A
MW4: 183.6 330 1.8 <0.50 1.12 6.2 24 70 0.51 <0.0010
B16 B17 B18
TP1 TP2
PL1 PL2 PL3 PL4 PL5 PL6
MW8: 45 710 1.1 <0.50 3.8 3.0 17 140 0.12 <0.0010
MW17: 120.2 --- --- --- 1.87 --- --- 85 0 ---
MW1: 60.9 --- --- --- 1.24 --- --- 125 0.92 ---
MW2: 53.7 440 1.1 <0.50 1.31 3.3 25 123 0.05 <0.0010
MW9: 173.9 --- --- --- 1.45 --- --- 165 0 ---
MW6: 57.4 --- --- --- --- --- --- 110 0.19 ---
MW7: 170 --- --- --- 1.06 --- --- 116 0 ---
APPROXIMATE SCALE
0 40 80 Feet
SOURCE: Modified from maps provided by Morrow Surveying

FN 420340004a_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

RESULTS OF NATURAL ATTENUATION SAMPLING

FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

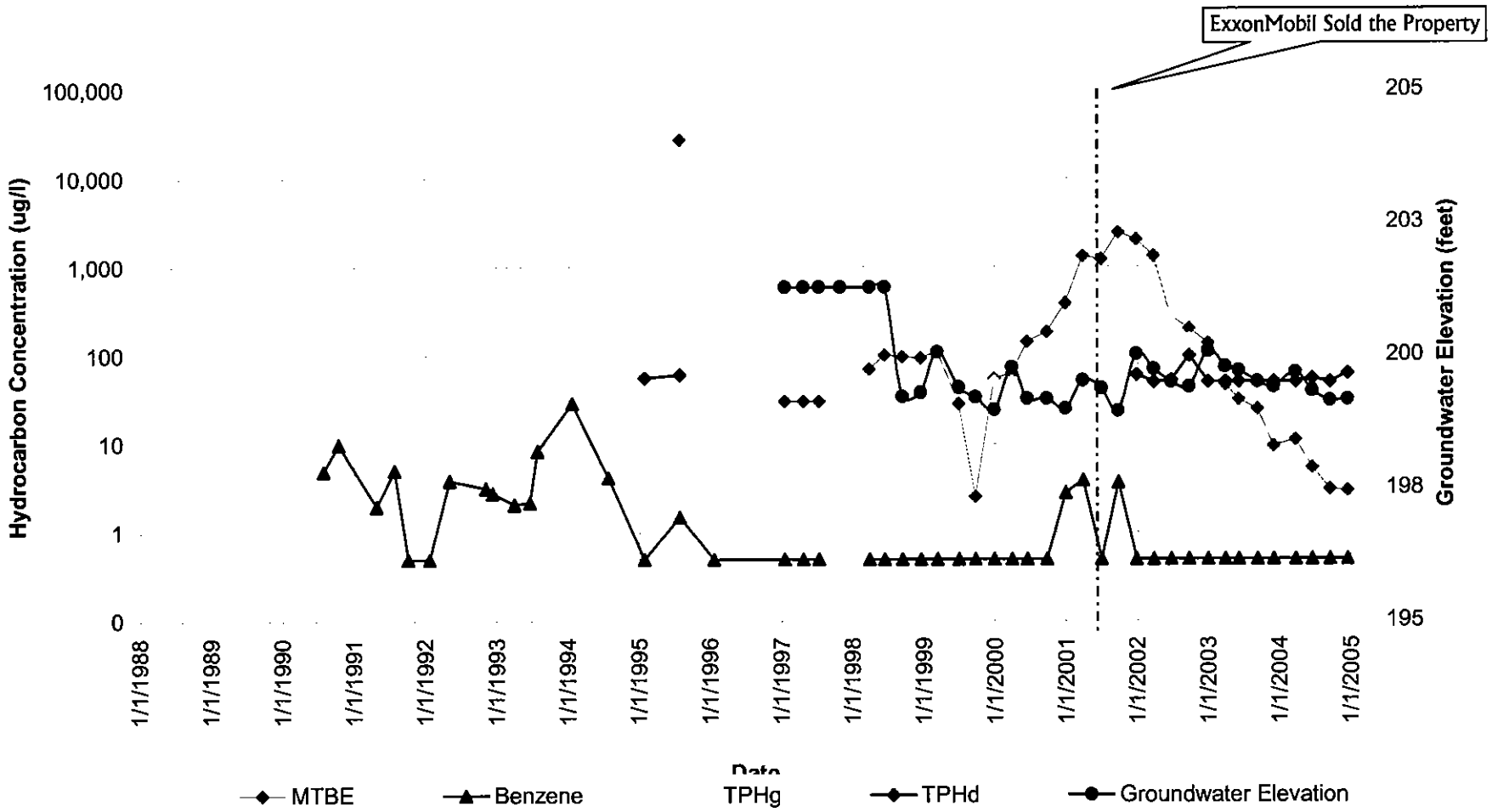
EXPLANATION

MW18 Groundwater Monitoring Well
GP8 Geoprobe
RW1 Recovery Well
B18 Soil Boring
PL6 Product Line Boring

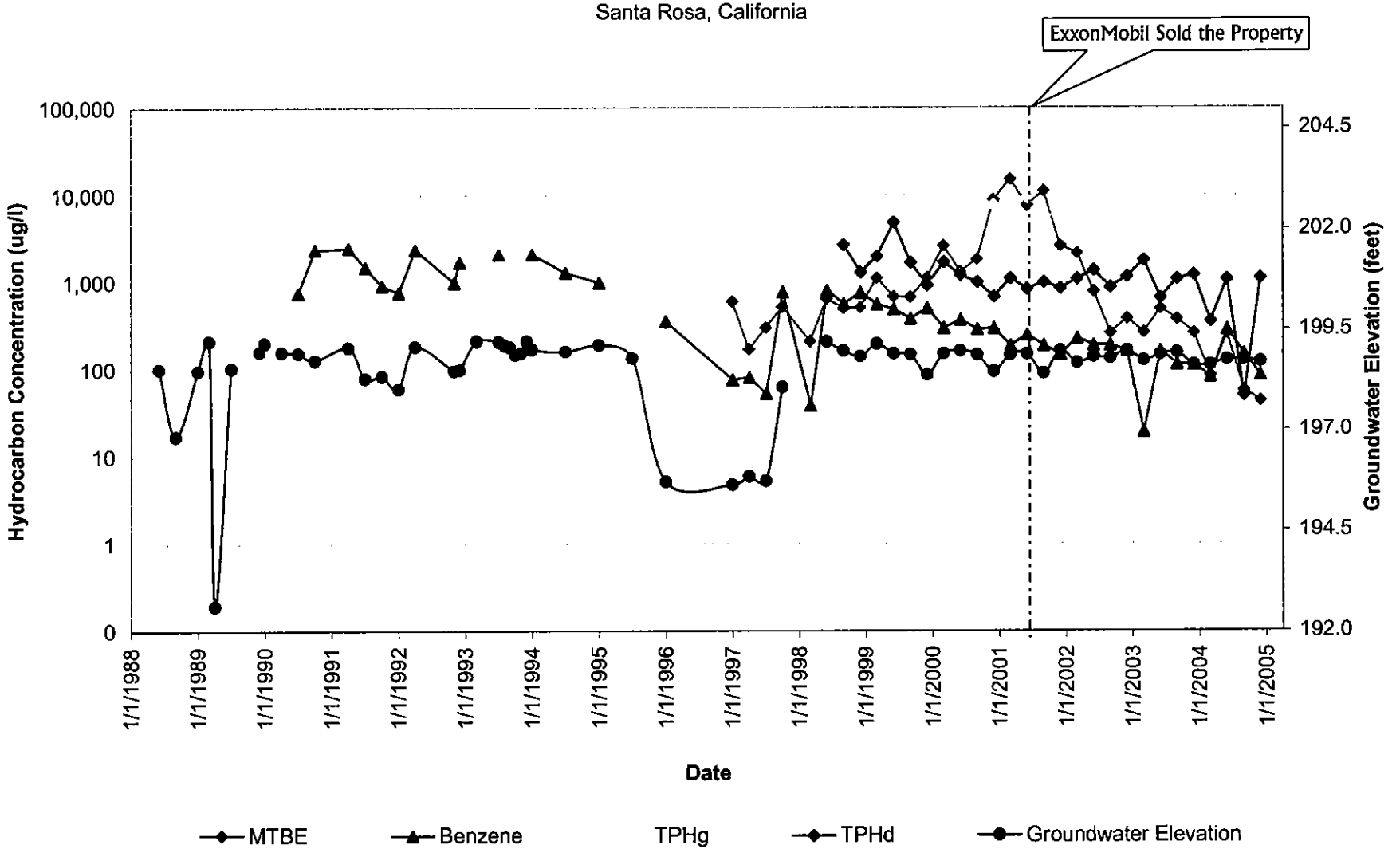
PROJECT NO. 2034

PLATE 11

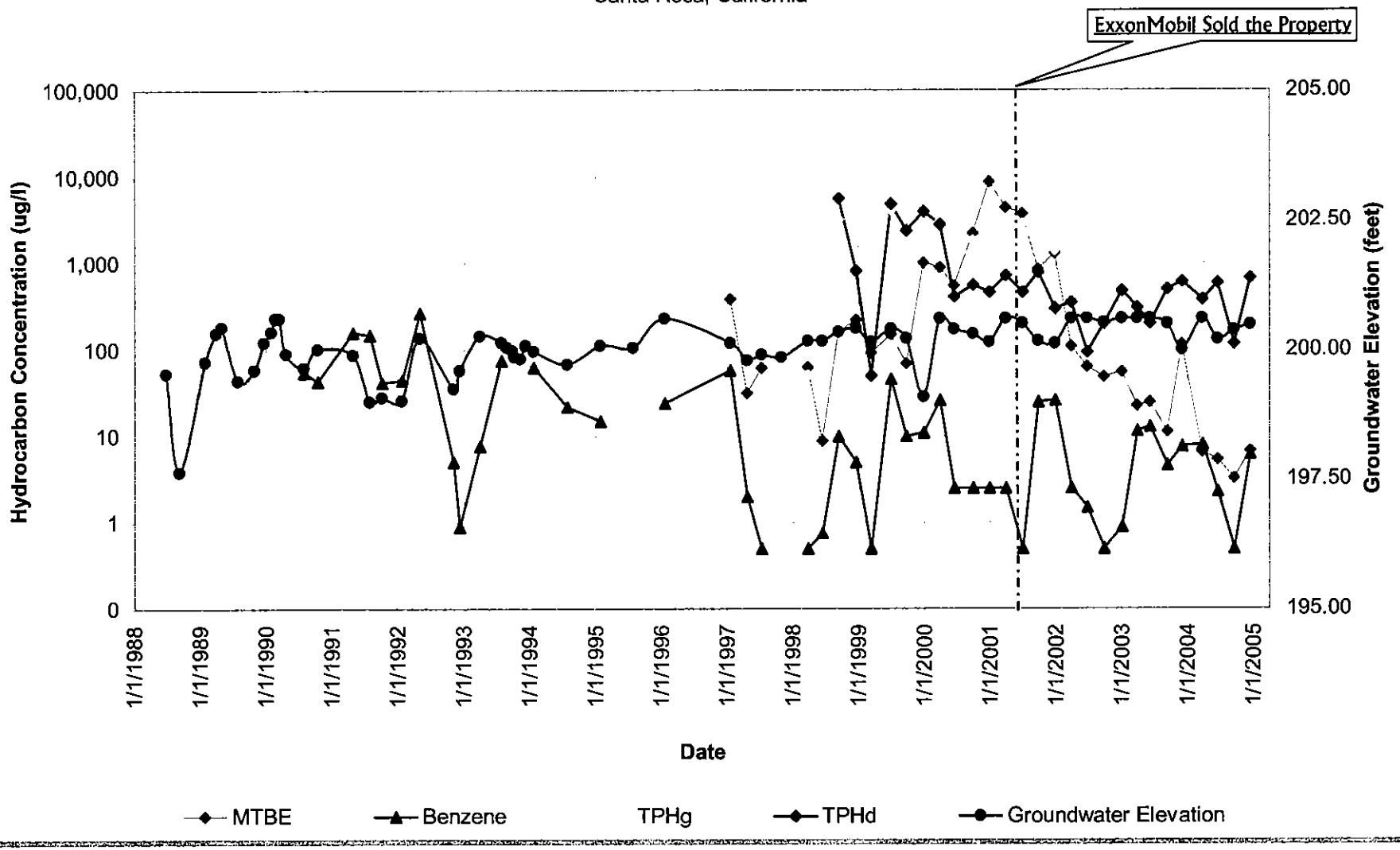
GRAPH 1
HYDROGRAPH - MW1
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California



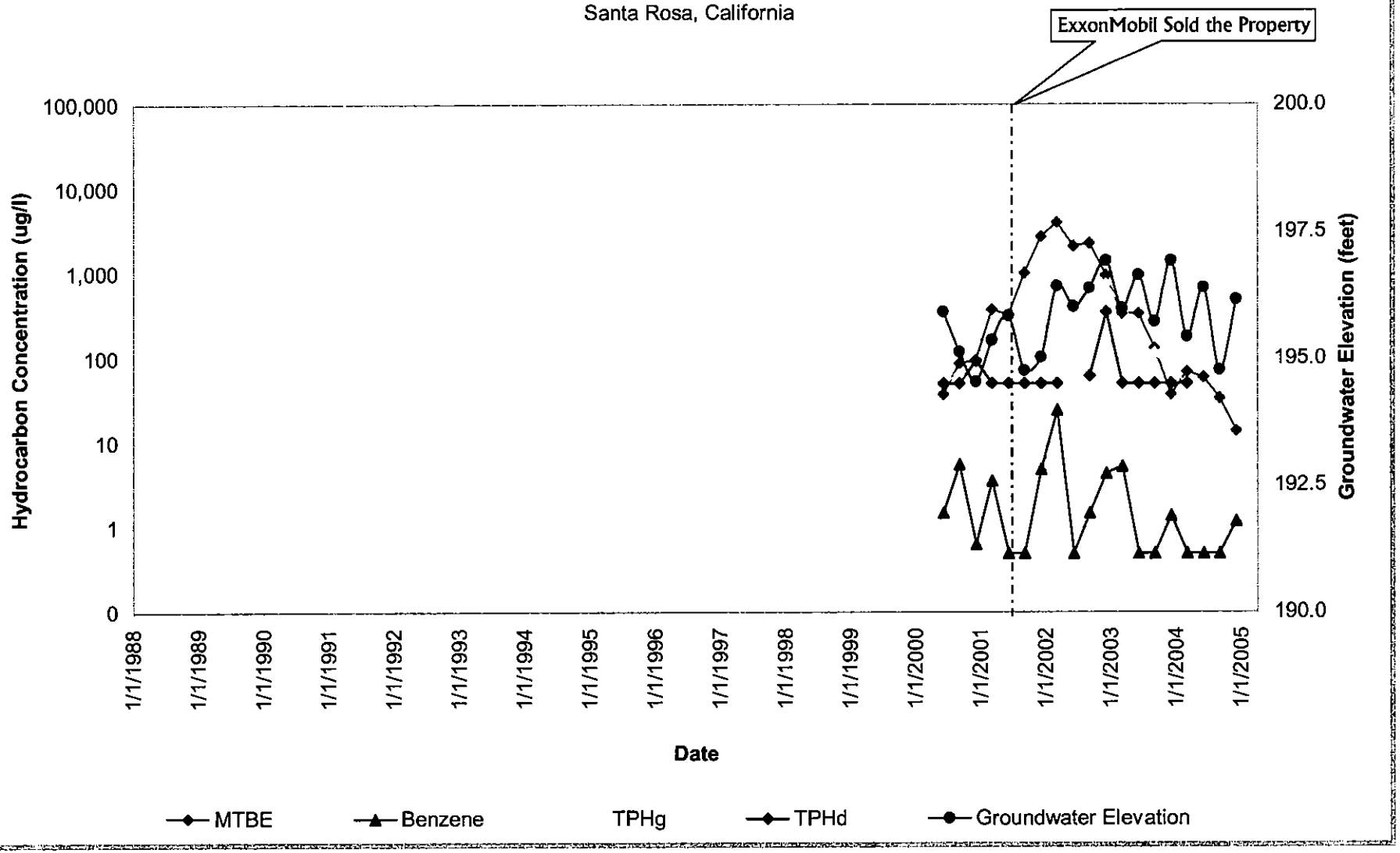
GRAPH 2
HYDROGRAPH - MW3
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California



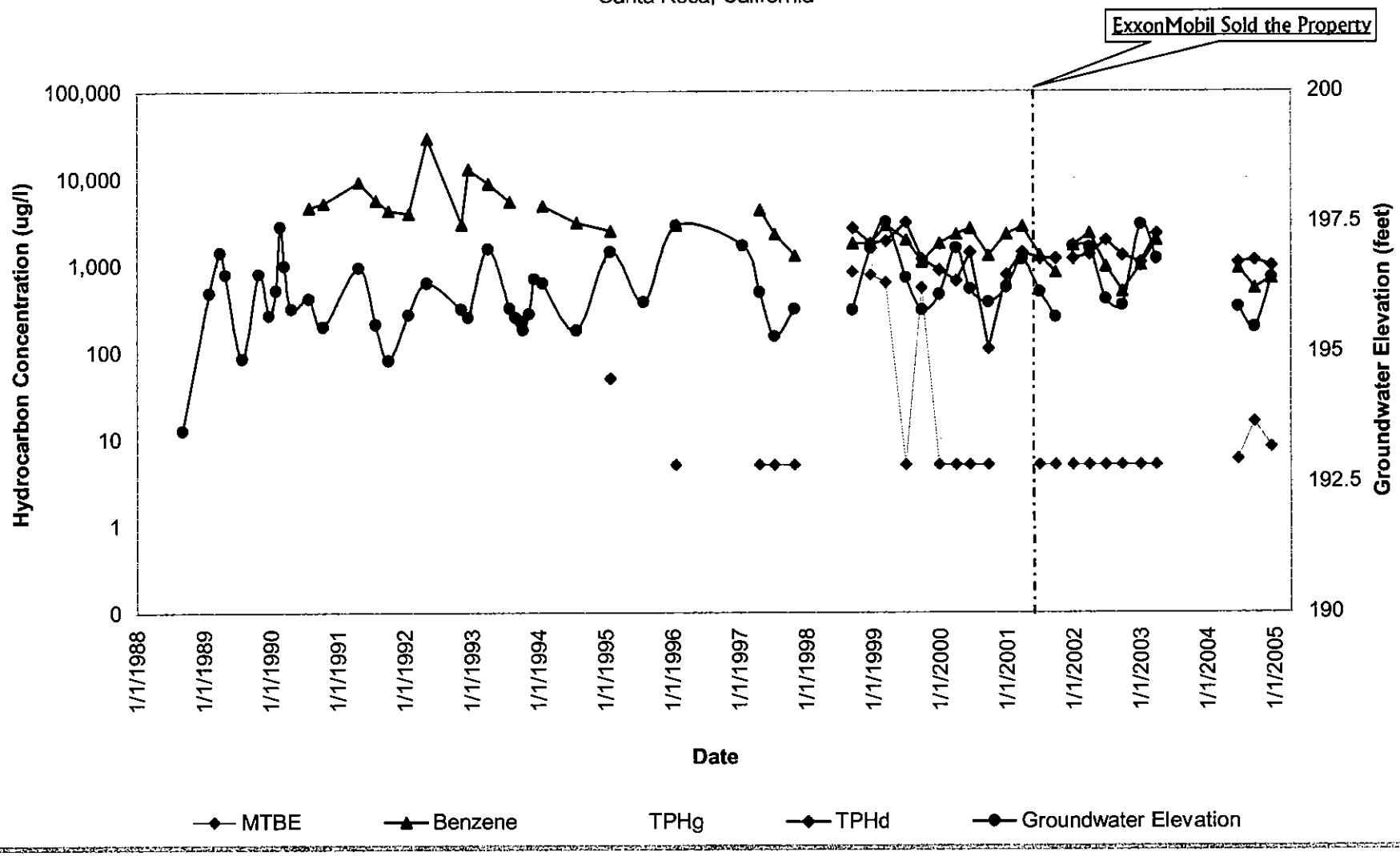
GRAPH 3
HYDROGRAPH - MW5
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California



GRAPH 4
HYDROGRAPH - MW15
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California



GRAPH 5
HYDROGRAPH - MW10
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California



APPENDIX A

REGULATORY CORRESPONDENCE

2034
7-0276

California Regional Water Quality Control Board
North Coast Region
William R. Massey, Chairman

Terry Tamminen
Secretary for Environmental Protection

http://www.swrcb.ca.gov/rwqcb1/
5550 Skylane Boulevard, Suite A, Santa Rosa, California 95403
Phone 1-877-721-9203 Office (707) 576-2220 FAX (707) 523-0135

Arnold Schwarzenegger
Governor

November 30, 2004

RECEIVED
DEC 0 3 2004
BY:----------

Jennifer C. Sedlachek, Project Manager
ExxonMobil Refining and Supply Company
4096 Piedmont Avenue #194
Oakland, California 94611

Dear Ms. Sedlachek:

Subject: Request for Corrective Action Plan
File: Texaco (Farmers Lane, 1400), 1400 Farmers Lane, Santa Rosa; Case No. 1TSR069

Regional Water Board staff has reviewed the following documents prepared for the subject site by Environmental Resolutions, Inc. (ERI):

- March 26, 2004 "Supplemental Evaluation of Groundwater"
- May 21, 2004 "High-Vacuum Dual-Phase Extraction Pilot Test"
- October 20, 2004 "Work Plan for a Feasibility Study for Natural Attenuation."

Depth-discrete groundwater samples collected in October 2003 show significant levels of dissolved petroleum compounds as deep as 36 feet below ground surface (bgs). The dual-phase extraction pilot test conducted in October 2003 indicates that dual-phase extraction is a feasible remedial alternative for removing petroleum constituents from soil and groundwater and for controlling contaminant migration.

In October 2002, Regional Water Board staff requested the submittal of a feasibility study and Corrective Action Plan for this site. In April 2003, Regional Water Board staff concurred with the proposals to install additional monitoring wells and to submit a Corrective Action Plan within sixty days of completing the proposed work. However, when staff inquired about the status of the project in August 2004, the proposed installation of monitoring well MW-18 had not been completed. Although monitoring well MW-18 has subsequently been installed, the fieldwork has not yet been documented in the case file. ERI has indicated that a report for the installation of monitoring well MW-18 would be submitted before December 6, 2004.

On October 27, 2004, ERI submitted a "Work Plan for a Feasibility Study for Natural Attenuation," proposing to collect additional groundwater data to evaluate monitored natural attenuation (MNA) during the upcoming seasonal high and low groundwater monitoring events. On November 22, 2004, Regional Water Board staff contacted Robert Saur of ERI to discuss the status of the investigation. As discussed with Mr. Saur on November 22, Regional Water Board staff does not concur with the proposal to wait another year for the collection of water quality

data prior to evaluating MNA as a potentially effective remedial alternative. We note that data for evaluating MNA could have been collected at any time since we requested submittal of the CAP in October 2002.

Implementation of a Corrective Action Plan (CAP) is needed at the subject site to remove continuing sources of contamination, to prevent continuing contaminant migration from the site, and to achieve water quality objectives in groundwater within a reasonable timeframe. Pursuant to the California Underground Storage Tank Regulations[1], a feasibility study (FS) must be included as part of CAP to identify and evaluate at least two alternatives for restoring or protecting beneficial uses of groundwater. In addition, CAP proposals must have a substantial likelihood to achieve compliance with cleanup goals and objectives within a reasonable time frame when compared to other feasible alternatives.[2] To achieve this objective, the FS must estimate the time needed for each feasible remedial alternative under consideration.

Please submit an FS/CAP to address cleaning up continuing sources of groundwater contamination, controlling contaminant migration in groundwater, and achieving water quality objectives at the site in a reasonable time frame. The FS/CAP must be submitted within sixty days of the date of this letter.

Please contact me at (707) 576-2469 if you have any questions or comments.

Sincerely,

Jim Tischler

Jim Tischler
Environmental Scientist

JAT:clh\ 113004_JAT_Texaco (Farmers)10.let

CC: Santa Rosa Fire Department
Mr. Robert A. Saur, Environmental Resolutions, Inc., 73 Digital Drive, Suite 100, Novato, CA 04049-5791
Mr. John Anderson, Sonoma County Environmental Health Department

[1] California Underground Storage Tank Regulations, Title 23, Chapter 16, CCR Section 2725 requires Section 2725 (f)

[2] SWRCB Resolution No 92-49: "Policies And Procedures For Investigation And Cleanup and Abatement Of Discharges Under Water Code Section 1330"

APPENDIX B

CHEMICAL PROPERTIES

CHEMICAL DATA FOR SELECTED COCs

Physical Property Data

Constituent	CAS Number	type	Molecular Weight (g/mole) MW	ref	Diffusion Coefficients in air (cm2/s) Dair	ref	Diffusion Coefficients in water (cm2/s) Dwat	ref	log (Koc) or log(Kd) (@ 20 - 25 C) log(L/kg) partition		ref	Henry's Law Constant (@ 20 - 25 C) (atm-m3) mol	(unitless)	ref	Vapor Pressure (@ 20 - 25 C) (mm Hg)	ref	Solubility (@ 20 - 25 C) (mg/L)	ref	acid pKa	base pKb	ref
Benzene*	71-43-2	A	78.1	PS	8.80E-02	R2	9.80E-06	R2	1.79	Koc	R2	5.53E-03	2.28E-01	R2	9.52E+01	PS	1.80E+03	R2	-	-	-
Ethylbenzene*	100-41-4	A	106.2	PS	7.50E-02	R2	7.80E-06	R2	2.30	Koc	R2	7.83E-03	3.23E-01	R2	1.00E+01	PS	1.69E+02	R2	-	-	-
Methyl t-Butyl ether*	1634-04-4	A	88.146	5	8.10E-02	R2	9.41E-05	R2	1.07	Koc	R2	5.84E-04	2.41E-02	R2	2.49E+02	-	4.80E+04	R2	-	-	-
Toluene*	108-88-3	A	92.4	5	8.70E-02	R2	8.60E-06	R2	2.15	Koc	R2	6.57E-03	2.71E-01	R2	3.00E+01	4	5.26E+02	R2	-	-	-
Xylene (mixed isomers)*	1330-20-7	A	106.2	5	7.00E-02	R2	7.80E-06	R2	2.30	Koc	R2	7.25E-03	2.99E-01	R2	7.00E+00	4	1.61E+02	R2	-	-	-
TPH - Aliph >C05-C06	0-00-0	T	81	T	1.00E-01	T	1.00E-05	T	2.90	Koc	T	7.88E-01	3.25E+01	T	2.66E+02	-	3.60E+01	T	-	-	-
TPH - Aliph >C06-C08	0-00-0	T	100	T	1.00E-01	T	1.00E-05	T	3.60	Koc	T	1.17E+00	4.81E+01	T	4.79E+01	-	5.40E+00	T	-	-	-
TPH - Aliph >C08-C10	0-00-0	T	130	T	1.00E-01	T	1.00E-05	T	4.50	Koc	T	1.90E+00	7.85E+01	T	4.79E+00	-	4.30E-01	T	-	-	-
TPH - Aliph >C10-C12	0-00-0	T	160	T	1.00E-01	T	1.00E-05	T	5.40	Koc	T	2.96E+00	1.22E+02	T	4.79E-01	-	3.40E-02	T	-	-	-
TPH - Aliph >C12-C16	0-00-0	T	200	T	1.00E-01	T	1.00E-05	T	6.70	Koc	T	1.26E+01	5.21E+02	T	3.65E-02	-	7.60E-04	T	-	-	-
TPH - Aliph >C16-C21	0-00-0	T	270	T	1.00E-01	T	1.00E-05	T	8.80	Koc	T	1.19E+02	4.90E+03	T	8.36E-04	-	2.50E-06	T	-	-	-
TPH - Aliph >C21-C34	0-00-0	T	400	-	1.00E-01	-	1.00E-05	-	8.80	Koc	-	1.76E+02	7.26E+03	-	8.36E-04	-	2.50E-06	-	-	-	-

* = Chemical with user-specified data

Site Name: Former Exxon Service Station 7-0276 Completed By: Job ID:

Site Location: 1400 Farmers Lane, Santa Rosa, CA Date Completed: 0-Jan-00

CHEMICAL DATA FOR SELECTED COCs

Toxicity Data

Constituent	Reference Dose (mg/kg/day) Oral RfD_oral	ref	Reference Dose (mg/kg/day) Dermal RfD_dermal	ref	Reference Conc. (mg/m3) Inhalation RfC_inhal	ref	Slope Factors 1/(mg/kg/day) Oral SF_oral	ref	Slope Factors 1/(mg/kg/day) Dermal SF_dermal	ref	Unit Risk Factor 1/(µg/m3) Inhalation URF_Inhal	ref	EPA Weight of Evidence	Is Constituent Carcinogenic ?
Benzene*	3.00E-03	R2	-	-	5.95E-03	R	1.00E-01	R2	2.99E-02	TX	8.29E-06	PS	A	TRUE
Ethylbenzene*	1.00E-01	R2	9.70E-02	0.1	1.00E+00	PS	-	-	-	-	-	-	D	FALSE
Methyl t-Butyl ether*	1.00E-02	R2	8.00E-03	0.01	3.00E+00	R	1.80E-03	R2	-	-	-	-	A	TRUE
Toluene*	2.00E-01	R2	1.60E-01	0.16	4.00E-01	-	-	-	-	-	-	-	D	FALSE
Xylene (mixed isomers)*	2.00E+00	R2	1.84E+00	1.84	7.00E+00	A	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C05-C06	5.00E+00	T	-	-	1.84E+01	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C06-C08	5.00E+00	T	-	-	1.84E+01	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C08-C10	1.00E-01	T	-	-	1.00E+00	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C10-C12	1.00E-01	T	-	-	1.00E+00	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C12-C16	1.00E-01	T	-	-	1.00E+00	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C16-C21	2.00E+00	T	-	-	-	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C21-C34	2.00E+00	T	-	-	-	T	-	-	-	-	-	-	D	FALSE

* = Chemical with user-specified

Site Name: Former Exxon Servi

Site Location: 1400 Farmers I

Miscellaneous Chemical Data

Constituent	Maximum Contaminant Level MCL (mg/L)	ref	Time-Weighted Average Workplace Criteria TWA (mg/m3)	ref	Aquatic Life Prot. Criteria AQL (mg/L)	ref	Biocon-centration Factor (L-wat/kg-fish)
Benzene*	1.00E-03	-	3.25E+00	-	4.60E-02	R2	12.6
Ethylbenzene*	7.00E-01	-	4.35E+02	-	2.90E-01	R2	1
Methyl t-Butyl ether*	5.00E-03	-	6.00E+01	NIOSH	8.00E+00	R2	1
Toluene*	1.50E-01	-	1.47E+02	ACGIH	1.30E-01	R2	70
Xylene (mixed isomers)*	1.75E+00	-	4.34E+02	ACGIH	1.30E-02	R2	1
TPH - Aliph >C05-C06	-	-	-	-	-	-	1
TPH - Aliph >C06-C08	-	-	-	-	-	-	1
TPH - Aliph >C08-C10	-	-	-	-	-	-	1
TPH - Aliph >C10-C12	-	-	-	-	-	-	1
TPH - Aliph >C12-C16	-	-	-	-	-	-	1
TPH - Aliph >C16-C21	-	-	-	-	-	-	1
TPH - Aliph >C21-C34	-	-	-	-	-	-	1

* = Chemical with user-specified

Site Name: Former Exxon Servi

Site Location: 1400 Farmers I

CHEMICAL DATA FOR SELECTED COCs

Miscellaneous Chemical Data

Constituent	Dermal Relative Absorp. Factor (unitless)	Water Dermal Permeability Data: Dermal Permeability Coeff. (cm/hr)	Lag time for Dermal Exposure (hr)	Critical Exposure Time (hr)	Relative Contr of Derm Perm Coeff (unitless)	Water/Skin Derm Adsorp Factor (cm/event)	ref	Detection Limits: Groundwater (mg/L)	ref	Soil (mg/kg)	ref	Half Life (First-Order Decay) (days): Saturated	Unsaturated	ref
Benzene*	0.5	0.021	0.26	0.63	0.013	7.3E-2	D	0.0005	S	0.5	S	1440	1440	E1
Ethylbenzene*	0.5	0.074	0.39	1.3	0.14	2.7E-1	D	0.0005	S	0.5	S	228	228	H
Methyl t-Butyl ether*	0.5	-	-	-	-	-	-	0.0005	-	0.5	L1	1440	1440	E1
Toluene*	0.5	0.045	0.32	0.77	0.054	1.6E-1	D	0.0005	S	0.5	S	28	28	H
Xylene (mixed isomers)*	0.5	0.08	0.39	1.4	0.16	2.9E-1	D	0.0005	S	0.5	S	360	360	H
TPH - Aliph >C05-C06	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C06-C08	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C08-C10	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C10-C12	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C12-C16	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C16-C21	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C21-C34	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-

* = Chemical with user-specified

Site Name: Former Exxon Servi

Site Location: 1400 Farmers I

Site Name: Former Exxon Service Station 7-0276 Job ID:
Location: 1400 Farmers Lane, Santa Rosa, CA Date: 0-Jan-00
Compl. By:

Commands and Options

Return | Print Sheet | Paste Default Values | *Help*

Constituent Half-Life Values

Constituent	Saturated Zone Half-Life *(day)*	Saturated Zone First-Order Decay Coeffecient *(1/day)*	Unsaturated Zone Half-Life *(day)*	Unsaturated Zone First-Order Decay Coeffecient *(1/day)*
Benzene*	1.4E+3	4.8E-4	1.4E+3	4.8E-4
Ethylbenzene*	2.3E+2	3.0E-3	2.3E+2	3.0E-3
Methyl t-Butyl ether*	1.4E+3	4.8E-4	1.4E+3	4.8E-4
Toluene*	2.8E+1	2.5E-2	2.8E+1	2.5E-2
Xylene (mixed isomers)*	3.6E+2	1.9E-3	3.6E+2	1.9E-3
TPH - Aliph >C05-C06	7.2E+2	9.6E-4	7.2E+2	9.6E-4
TPH - Aliph >C06-C08	7.2E+2	9.6E-4	7.2E+2	9.6E-4
TPH - Aliph >C08-C10	7.2E+2	9.6E-4	7.2E+2	9.6E-4
TPH - Aliph >C10-C12	7.2E+2	9.6E-4	7.2E+2	9.6E-4
TPH - Aliph >C12-C16	7.2E+2	9.6E-4	7.2E+2	9.6E-4
TPH - Aliph >C16-C21	7.2E+2	9.6E-4	7.2E+2	9.6E-4
TPH - Aliph >C21-C34	7.2E+2	9.6E-4	7.2E+2	9.6E-4

APPENDIX C

BORING LOGS

GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 1

Drilling Log

Project TEXACO/FARMERS — Owner Texaco Refining & Marketin
Location Santa Rosa, CA — Project Number 203 150 4329.11
Date Drilled 6/21/88 — Total Depth of Hole 20 ft. — Diameter 7.5 in.
Surface Elevation — Water Level Initial 8.5 ft. — 24-hour
Screen: Dia. 2 in. — Length 15 ft. — Slot Size 0.020 in.
Casing: Dia. 2 in. — Length 5 ft. — Type PVC
Drilling Company Sierra Pacific — Drilling Method Hollow Stem Auger
Driller Steve Lambott — Log by Chris DeSocio
Geologist / Engineer — License No.

Sketch Map

See Site Plan

Notes:

Depth (Feet)	Well Construction	PID (ppm)	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					5 in. asphalt over 8 in. base course
2					Brown, silty clay (medium stiff, dry, moderate product odor)
4			A 3 5 6	CL	(grades light grey)
6					(grades green-grey, stiff)
8					(grades with some fine sand, moist)
8			B 4 3 4		▼ Encountered water 6/21/88 (1250 hrs)
10				SM	Brown, silty, fine to medium sand (loose, wet, no product odor)
12					Brown, silty, fine to coarse, sandy gravel (loose, wet, no product odor)
14			C 3 5 6		(grades medium dense)
16				GP	
18			D		No sample recovered
20					End of boring, installed monitoring well
22					
24					

8/88 REV. 0

000182501

GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 2 — Drilling Log

Project TEXACO/FARMERS — Owner Texaco Refining & Marketin
Location Santa Rosa, CA — Project Number 203 150 4329.11
Date Drilled 6/22/88 — Total Depth of Hole 25 ft. — Diameter 7.5 in.
Surface Elevation ____ — Water Level Initial 8.0 ft. — 24-hour ____
Screen: Dia. 2 in. — Length 20 ft. — Slot Size .020 in.
Casing: Dia. 2 in. — Length 5 ft. — Type PVC
Drilling Company Sierra Pacific — Drilling Method Hollow Stem Auger
Driller Chris DeSocio — Log by Steve Kranyak
Geologist / Engineer ____ — License No. ____

Sketch Map

See Site Plan

Notes:

Depth (feet)	Well Construction	PID (ppm)	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0				CL	Brown clay (soft, moist, no product odor)
2					Dark brown, fine sandy, silty clay (soft, moist, no product odor)
4			A 3 5 6	CL	(grades with trace pebbles)
6					(grades light brown, stiff, no sand or pebbles)
8			B 4 5 5		▼ Encountered water 6/22/88 (0910 hrs.) (grades wet)
10					
12			C 3 5 6	ML	Brown, sandy silt with trace pebbles (soft, wet, no product odor)
14					(grades with medium gravel)
16					
18			D 3 5 8	GM	Brown, silty, sandy, coarse gravel (medium dense, wet, no product odor)
20					
22					
24			E 4 5		End of boring. Installed monitoring well

6/88 REV. 0

000182502

GROUNDWATER TECHNOLOGY, INC.

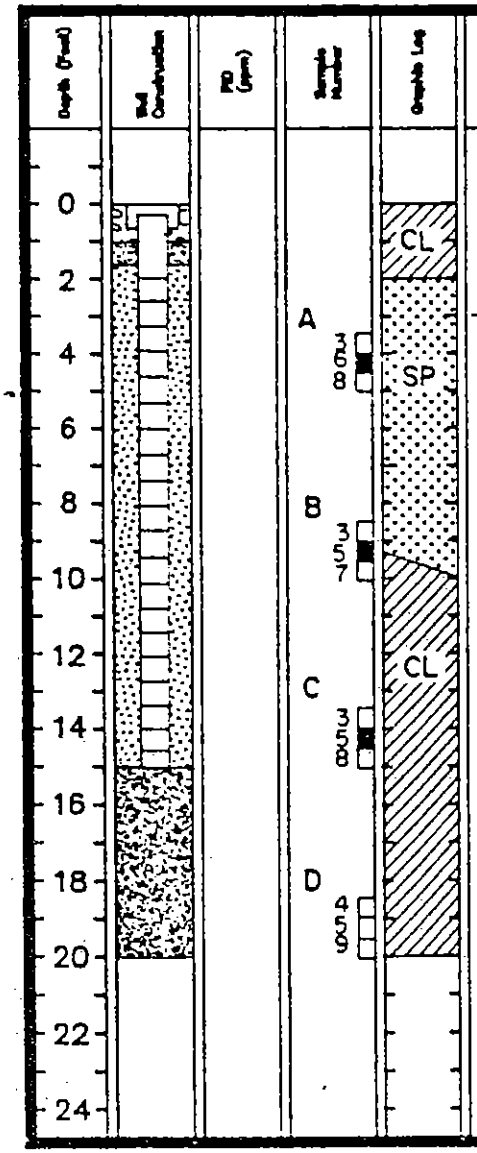
Monitoring Well 3 — Drilling Log

Project TEXACO/FARMERS — Owner Texaco Refining & Marketin
Location Santa Rosa, CA — Project Number 203 150 4329.11
Date Drilled 6/22/88 — Total Depth of Hole 20 ft. — Diameter 7.5 in.
Surface Elevation ____ — Water Level Initial 3 ft. — 24-hour ____
Screen: Dia. 2 in. — Length 13 ft. — Slot Size 0.020 in.
Casing: Dia. 2 in. — Length 2 ft. — Type PVC
Drilling Company Sierra Pacific — Drilling Method Hollow Stem Auger
Driller Chris DeSocio — Log by Steve Kranyak
Geologist / Engineer ____ — License No. ____

Sketch Map

See Site Plan

Notes:



Description/Soil Classification
(Color, Texture, Structures)

Brown clay with coarse gravel
(soft, moist, no product odor)

Grey-green, fine to coarse sand with trace pebbles
(medium dense, wet, strong product odor)

▼ Encountered water 6/22/88 (1130 hrs.)

(grades with increasing gravel)

(grades with decreasing product odor)

Brown, silty, sandy clay (stiff, moist,
no product odor)

(grades with trace sand)

End of boring, backfilled with bentonite to 15 ft.
Installed monitoring well

6/88 REV. 0

000182503

GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 4

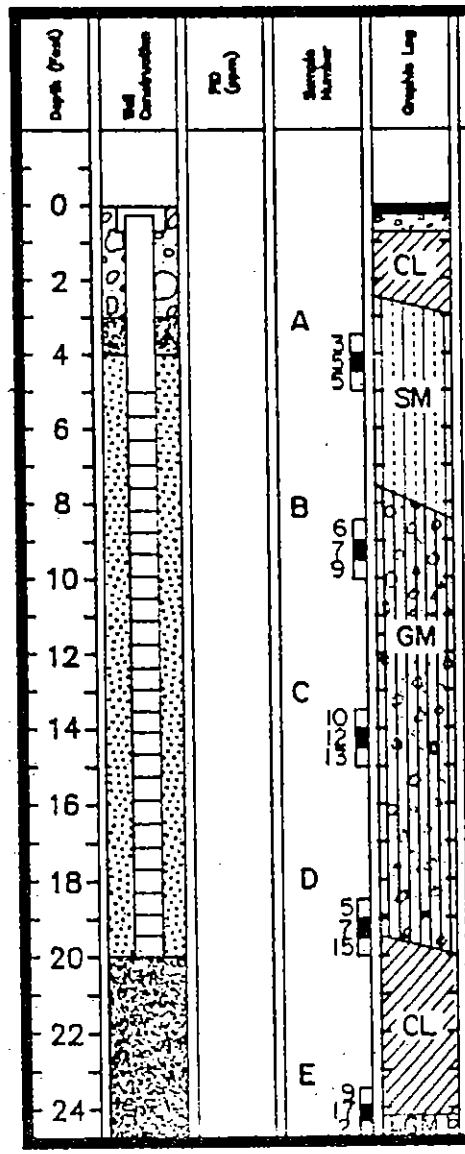
Drilling Log

Project Texaco/Farmers
Owner Texaco Ref. & Mktg. Inc.
Location Santa Rosa, CA
Project Number 203-150-4329.11
Date Drilled 6-22-88
Total Depth of Hole 25 ft.
Diameter 10.5 in.
Surface Elevation
Water Level Initial 7 ft.
24-hour
Screen: Dia. 4 in.
Length 15 feet
Slot Size 0.020 in.
Casing: Dia. 4 in.
Length 5 feet
Type PVC
Drilling Company Sierra Pacific
Drilling Method Hollow Stem Auger
Driller Steve Lambott
Log by Christopher DeSocio
Geologist / Engineer
License No.

Sketch Map

See Site Plan

Notes:



Description/Soil Classification
(Color, Texture, Structures)

3 inches asphalt over 6 inches base course

Brown, silty clay (soft, moist, no product odor)

Brown, silty, fine sand (loose, moist, no product odor)

(grades more coarse)

▼ Encountered water 6-22-88 (1630 hrs)

Brown, silty, sandy, fine- to medium-gravels (medium dense, wet, no product odor)

(grades more coarse)

(grades finer and with less silt)

Brown, silty clay (very stiff, moist, no product odor)

(grades sandy)

Brown, sandy, silty gravel (medium dense, wet, no product odor)

End of boring, bakcfilled to 20 ft. with bentonite, installed monitoring well

8/88 REV. 0

000182504

GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 5

Drilling Log

Project Texaco/Farmers Owner Texaco Ref. & Mktg. Inc.
Location Santa Rosa, CA Project Number 203-150-4329.11
Date Drilled 6-23-88 Total Depth of Hole 10 ft. Diameter 10.5 in.
Surface Elevation ____ Water Level Initial 2.5 ft. 24-hour ____
Screen: Dia. 4 in. Length 3.5 feet Slot Size 0.020 in.
Casing: Dia. 4 in. Length 1.5 feet Type PVC
Drilling Company Sierra Pacific Drilling Method Hollow Stem Auger
Driller Christopher DeSocio Log by Steve Kranyak
Geologist / Engineer ____ License No. ____

Sketch Map

See Site Plan

Notes:

Depth (feet)	Well Construction	PID (ppm)	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					5 inches asphalt over 7 inches base course
2				SM	Gray-green, silty, sandy, fine- to coarse-gravel (loose, wet, moderate product odor)
					▼ Encountered water 6-23-88 (0842 hrs)
4			A 4 5 8		Brown, mottled, silty clay with trace coarse sand (stiff, moist, slight product odor)
6				CL	
8			B 6 9 11		(grades with no sand)
10					End of boring. Installed monitoring well
12					
14					
16					
18					
20					
22					
24					

8/88 REV. 0

000182505

GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 6

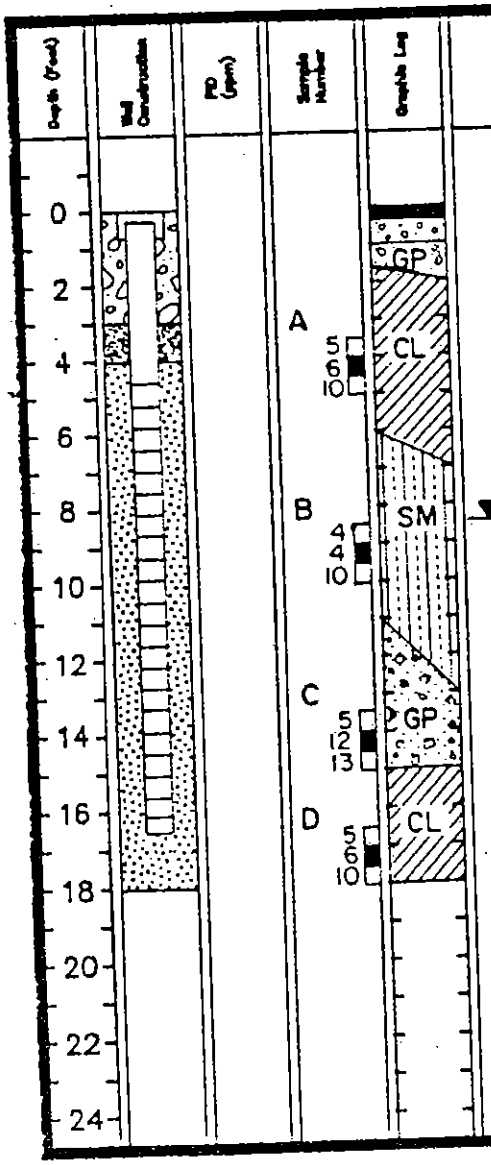
Drilling Log

Project Texaco/Farmers — Owner Texaco Ref. & Mktg. Inc.
Location Santa Rosa, CA — Project Number 203-150-4329.11
Date Drilled 6-23-88 — Total Depth of Hole 18 ft. — Diameter 10.5 in.
Surface Elevation — Water Level Initial 8.5 ft. — 24-hour
Screen: Dia. 4 in. — Length 12 feet — Slot Size 0.020 in.
Casing: Dia. 4 in. — Length 4.5 feet — Type PVC
Drilling Company Sierra Pacific — Drilling Method Hollow Stem Auger
Driller Christopher DeSocio — Log by Steve Kranyak
Geologist / Engineer — License No.

Sketch Map

See Site Plan

Notes:



Description/Soil Classification
(Color, Texture, Structures)

4 inches asphalt over 8 inches base course

Gray, fine- to- coarse gravel (loose, moist, no product odor)

Brown, silty, sandy clay with trace pebbles (medium stiff, moist, no product odor)

(grades light brown, with no sand)

(grades gray-green, stiff, waste-oil odor)

Gray-green, silty sand with trace pebbles (medium dense, moist, waste-oil odor)

▼ Encountered water 6-23-88 (1246 hrs)

(grades more coarse with some pebbles)

(grades with mild product odor)

Gray-green, coarse gravel with some fine- to- coarse sand (medium dense, wet, no product odor)

Brown, silty clay (stiff, moist, no product odor)

(grades with trace sand and pebbles)

End of boring. Installed monitoring well

8/88 REV. C

000182506

GROUNDWATER TECHNOLOGY, INC.

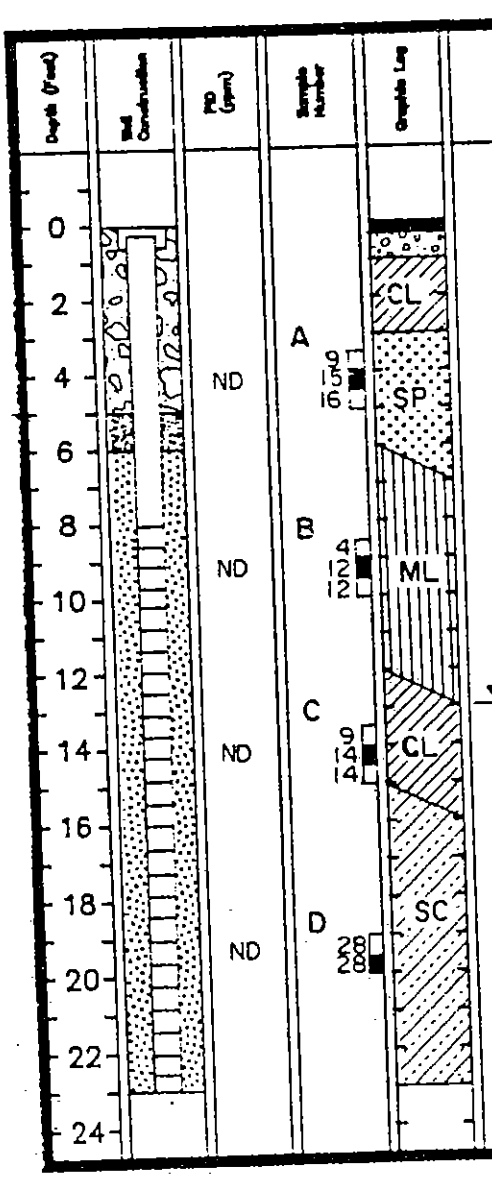
Monitoring Well 7

Drilling Log

Project Texaco/Farmers Lane Owner Texaco Refining & Marketing Inc
Location Santa Rosa, CA Project Number 203-150-4329
Date Drilled 8/8/88 Total Depth of Hole 23 ft. Diameter 10.5 in.
Surface Elevation Water Level Initial 13 ft. 24-hour 6.82 feet
Screen: Dia. 4 in. Length 15 feet Slot Size 0.020 in.
Casing: Dia. 4 in. Length 8 feet Type PVC
Drilling Company Sierra Pacific Drilling Method Hollow Stem Auger
Driller William Coleman Log by Chris Stageman
Geologist / Engineer License No.

Sketch Map

Notes:



Description/Soil Classification
(Color, Texture, Structures)

4 inches asphalt over 8 inches base course

Brown, sandy clay (soft, moist, no product odor)

Tan, fine-grained sand with gravel (dense, dry, no product odor)

(grades clayey)

Tan, clayey silt (stiff, slightly moist, no product odor)

(grades with fine sand)

▼ Encountered water 8-8-88 (1250 hrs)

Brown, gravelly clay (medium stiff, saturated, no product odor)

Brown, clayey, fine-grained sand (dense, saturated, no product odor)

(grades coarse, very dense)

End of boring. Installed monitoring well

8/88 REV. C

000182507

GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 8

Drilling Log

Project Texaco/Farmers Lane — Owner Texaco Refining & Marketing Inc
Location Santa Rosa, CA — Project Number 203-150-4329
Date Drilled 8/8/88 — Total Depth of Hole 20 ft. — Diameter 10.5 in.
Surface Elevation — Water Level Initial 10.5 ft. — 24-hour 1.9 ft.
Screen: Dia. 4 in. — Length 15 feet — Slot Size 0.020 in.
Casing: Dia. 4 in. — Length 5 feet — Type PVC
Drilling Company Sierra Pacific — Drilling Method Hollow Stem Auger
Driller William Coleman — Log by Chris Stageman
Geologist / Engineer — License No.

Sketch Map

Notes:

Depth (ft)	Well Construction	PID (ppm)	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					4 inches asphalt over 8 inches base course
2				SP	Green-tan sand (loose, dry, slight product odor)
					(grades strong product odor)
4		28	A 5 14 17		Green-brown, sandy clay (stiff, dry, moderate product odor)
6				CL	(grades more sandy, slight product odor)
8			B 3 4 5		Light brown, silty clay (medium stiff, moist, no product odor)
10		0.8			▼ Encountered water 8-8-88 (1605 hrs)
				CL	(grades less silty)
12					
14		ND	C 5 5 14		(grades stiff)
16					
18			D 6 13 12		(grades sandy)
		ND		ML	Grey-brown, clayey silt (stiff, dry, no product odor)
20					End of boring. Installed monitoring well.
22					
24					

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GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 9

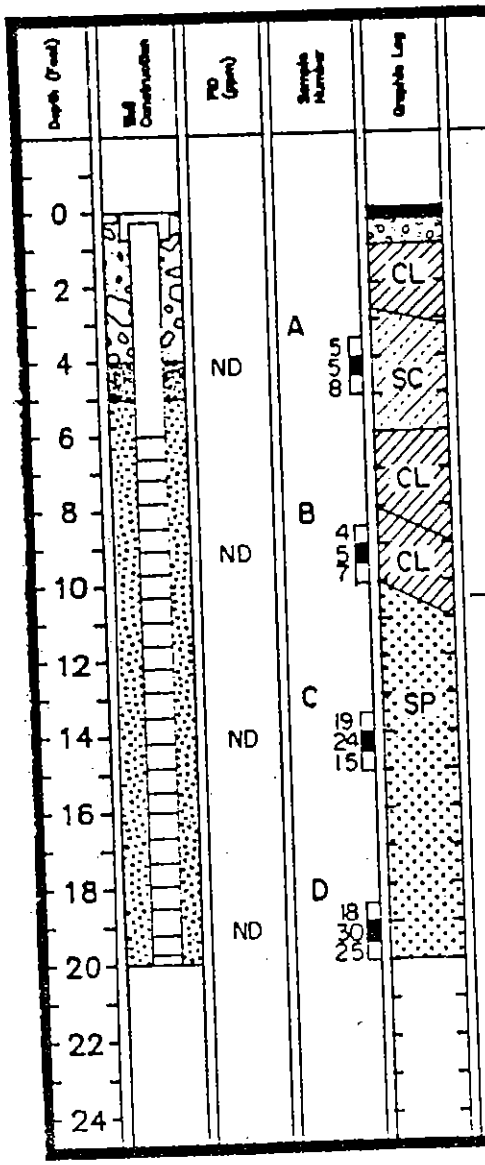
Drilling Log

Project Texaco/Farmers Lane
Location Santa Rosa, CA
Date Drilled 8/9/88 Total Depth of Hole 20 ft. Diameter 10.5 in.
Surface Elevation Water Level Initial 10.5 ft. 24-hour 5.85 ft.
Screen: Dia. 4 in. Length 14 feet Slot Size 0.020 in.
Casing: Dia. 4 in. Length 6 feet Type PVC
Drilling Company Sierra Pacific Drilling Method Hollow Stem Auger
Driller William Coleman Log by Chris Stageman
Geologist / Engineer License No.

Owner Texaco Refining & Marketing Inc
Project Number 203-150-4329

Sketch Map

Notes:



Description/Soil Classification
(Color, Texture, Structures)

4 inches asphalt over 8 inches base course

Black, silty-sandy clay (soft, slightly moist, musty odor)

Grey, clayey sand (medium dense, moist, no product odor)

Light brown clay with sand (soft, moist, no product odor)

Brown-tan, mottled, silty, sandy clay (medium stiff, moist, no product odor)

▼ Water encountered 8-9-88 (0920 hrs)

Tan-brown, gravelly, coarse sand (dense, saturated, no product odor)

(grades more coarse)

(grades very dense)

End of boring. Installed monitoring well.

* 6/88 REV. G

000182509

GROUNDWATER TECHNOLOGY, INC.

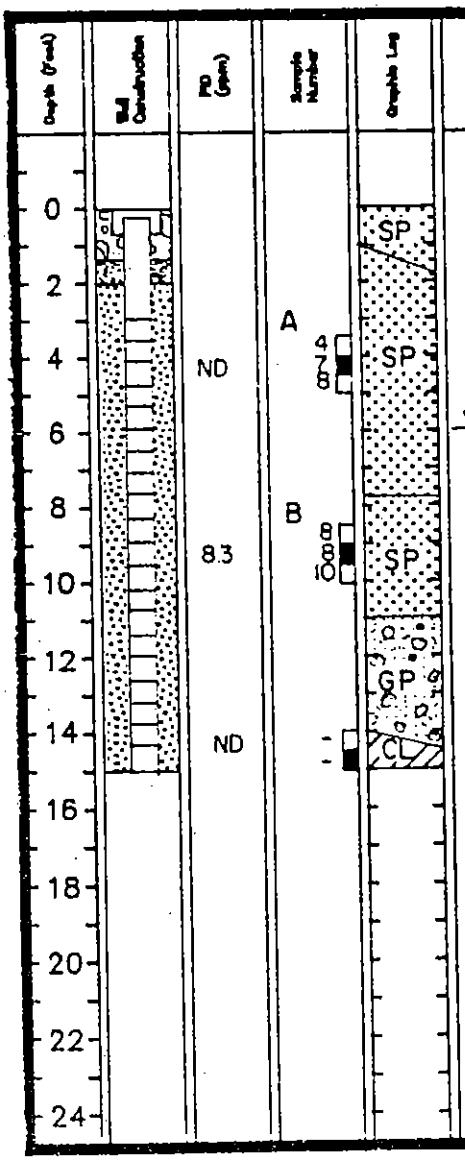
Monitoring Well 10

Drilling Log

Project Texaco/Farmers Lane Owner Texaco Refining & Marketing
Location Santa Rosa, CA Project Number 203-150-4329
Date Drilled 8/9/88 Total Depth of Hole 15 ft. Diameter 10.5 in.
Surface Elevation Water Level Initial 6 ft. 24-hour 4.32 ft.
Screen: Dia. 4 in. Length 12 feet Slot Size 0.020 in.
Casing: Dia. 4 in. Length 3 feet Type PVC
Drilling Company Sierra Pacific Drilling Method Hollow Stem Auger
Driller William Coleman Log by Chris Stageman
Geologist / Engineer License No.

Sketch Map

Notes:



Description/Soil Classification
(Color, Texture, Structures)

Grass
Yellow, fine-grained sand (loose, dry, no product odor)

Yellow-brown sand with coarse gravel (medium dense, moist, no product odor)

▼ Encountered water 8-9-88 (1330 hrs)

Grey, medium-grained sand with gravel (medium dense, saturated, no product odor)

Grey, coarse gravel with sand (medium dense, saturated, moderate product odor)

(grades fine)

Tan-grey, silty clay (stiff, dry, no product odor)
End of boring. Installed monitoring well.

6/88 REV. 0

000182510

GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 11

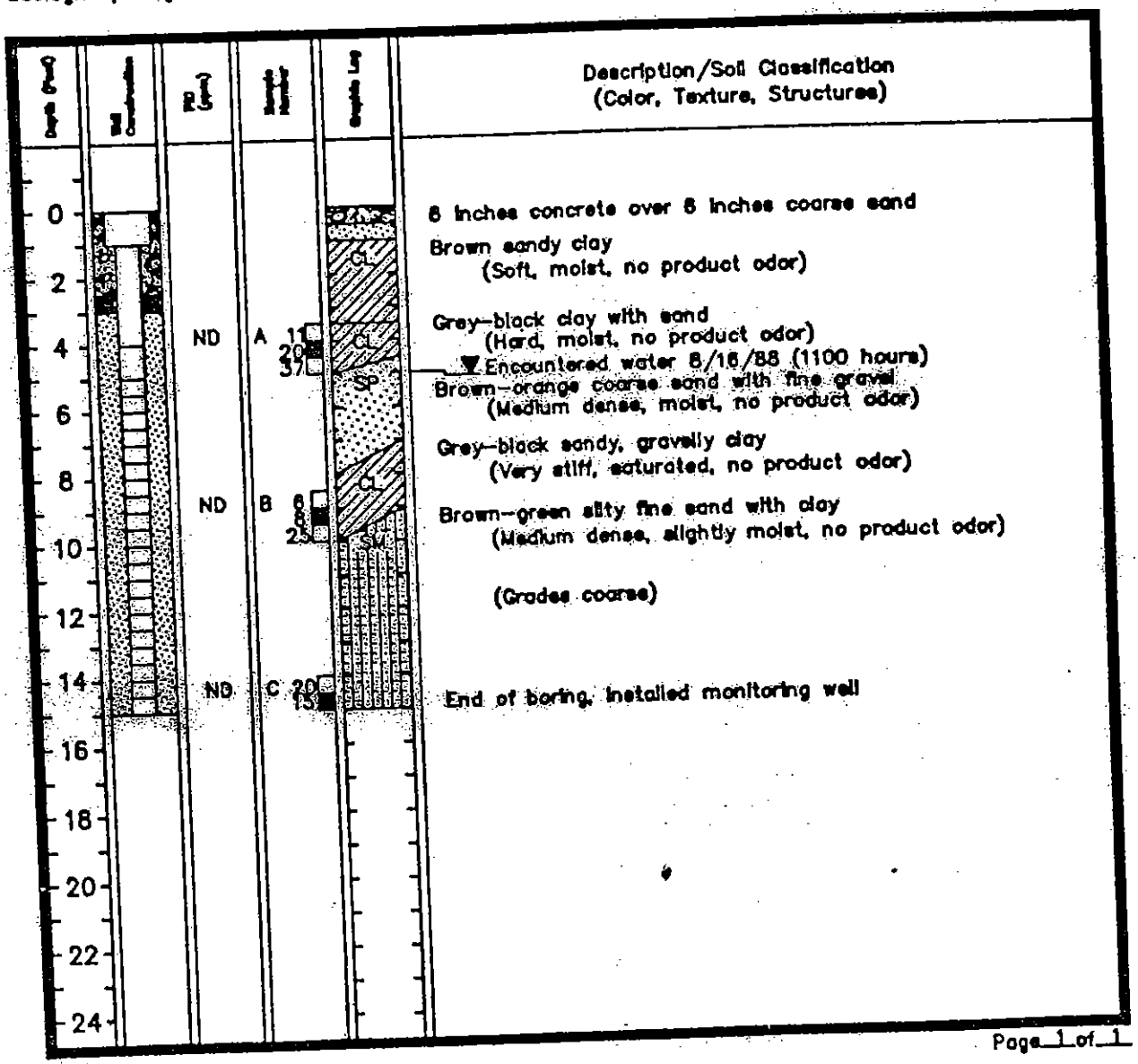
Drilling Log

Project TEXACO/FARMERS LANE
Location SANTA ROSA, CALIFORNIA
Date Drilled 8/16/88
Surface Elevation
Screen: Dia. 4 IN Length 11 FT
Casing: Dia. 4 IN Length 4 FT
Drilling Company SIERRA PACIFIC
Driller WILLIAM COLEMAN
Geologist / Engineer

Owner TEXACO REF. & MARK. INC.
Project Number 203-150-4328
Total Depth of Hole 15 FT Diameter 10.5 IN
Water Level Initial 5 FT 24-hour
Slot Size 0.020 IN
Type PVC
Drilling Method HOLLOW STEM AUGER
Log by CHRIS STAGEMAN
License No.

Sketch Map

Notes:
ND = NON DETECABLE



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8/88 REV. 0

000182511

GROUNDWATER TECHNOLOGY, INC.

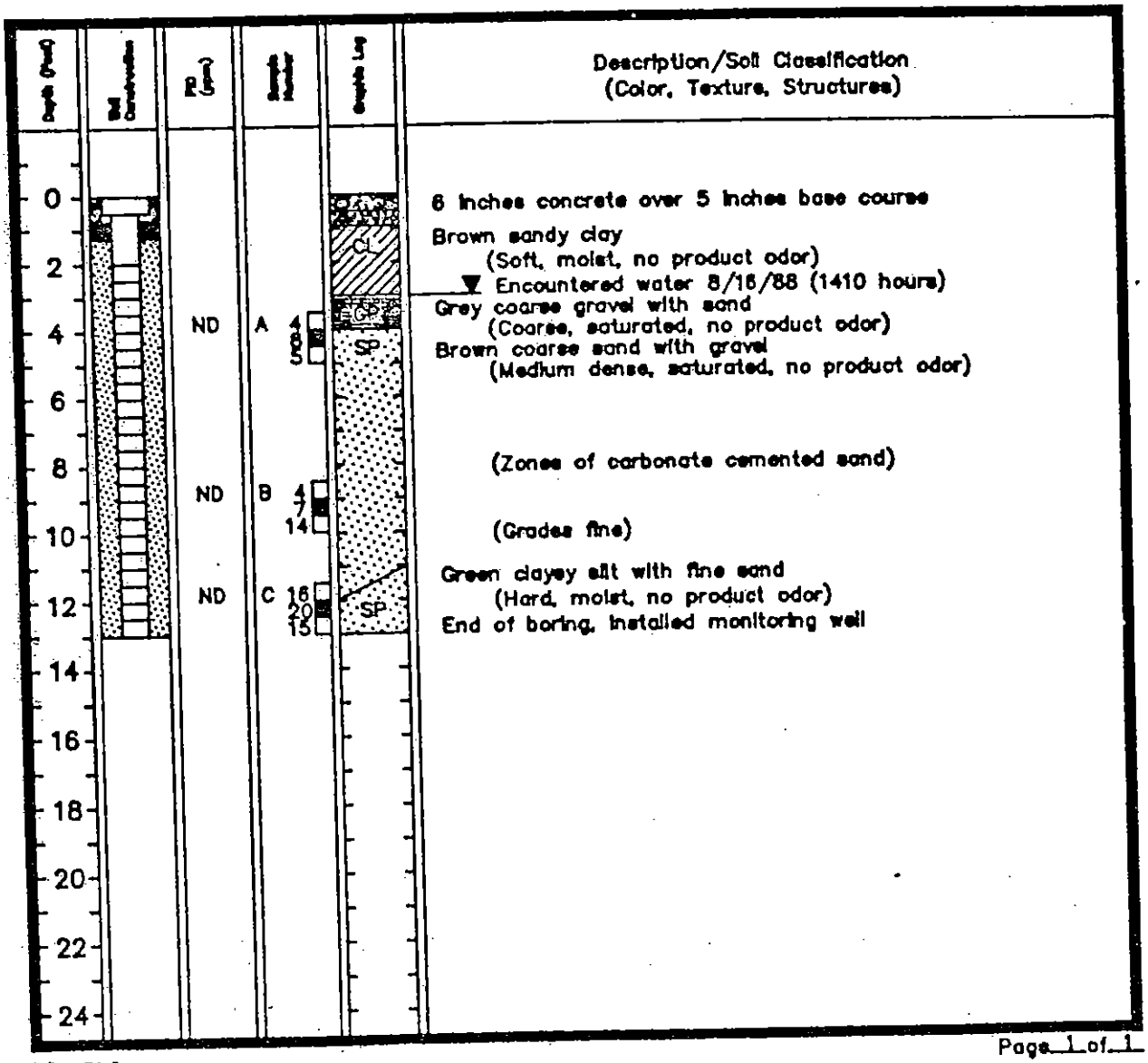
Monitoring Well 12

Drilling Log

Project: TEXACO/FARMERS LANE
Location: SANTA ROSA, CALIFORNIA
Owner: TEXACO REF. & MARK. INC.
Project Number: 203-150-4328
Date Drilled: 8/16/88
Total Depth of Hole: 13 FT
Diameter: 10.5 IN
Surface Elevation:
Water Level Initial: 3 FT
24-hour:
Screen: Dia.: 4 IN
Length: 11 FT
Slot Size: 0.020 IN
Casing: Dia.: 4 IN
Length: 2 FT
Type: PVC
Drilling Company: SIERRA PACIFIC
Drilling Method: HOLLOW STEM AUGER
Driller: WILLIAM COLEMAN
Log by: CHRIS STAGEMAN
Geologist / Engineer:
License No.:

Sketch Map

Notes:
ND = NON DETECABLE



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000182512

Monitoring Well 13

Drilling Log

Project Texaco/Farmers Lane — Owner Texaco Refining and Marketing

Location Santa Rosa — Project Number 205 150 4329

Date Drilled 4/17/90 — Total Depth of Hole 19.5 ft — Diameter 10.5 in

Surface Elevation ____ — Water Level Initial 8.0 ft — 24-hour 2.5 ft.

Screen: Dia 4 in — Length 10 ft. — Slot Size 0.020 in.

Casing: Dia 4 in. — Length 9.5 ft. — Type Sch 40 PVC

Filter Pack Material Lonestar #2/12 Sand

Drilling Company Sierra Pacific Drilling — Drilling Method Hollow Stem Auger

Driller Gerald Harris — Log by Chris McCormack

Geologist/Engineer A.B. Storm — License No RG 4394

See Site Map For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample ID	Blow Count	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0							6 inch asphalt over 12 inch aggregrate base (slight to moderate odor in aggregrate).
2		10	A	10 12 15			Black clay with green stringers (wet, no odor)
4		0	B	7 15 22			Medium dark brown silty clay (medium stiff, moist to slightly wet, no odor).
6		0	C	7 17 26			(locally sandy, rare fine to medium sand)
8		0	D	9 14 15			Medium to dark brown silty clay, increasing silt, grades more crumbly (medium stiff to soft, moist to slightly wet, no odor).
10		0	E	10 20 23		CL	Encountered Water 4/17/90 (1115 hours).
12		0	F	10 16 23			Dark brown grading to tan to light greenish whitish tan sandy-silty clay with local gravelly sand stringers (medium stiff, saturated, no odor)
14		0	G	10 12 15			(grades to very stiff, wet, no odor)
16		0	H	10 12 18			Light brown to tan, some local white to greenish white sandy-silty clay (stiff, wet to saturated, no odor).
18		0	I	8 10 15			Light brown clayey sand with occasional gravel, very poorly sorted (saturated, no odor).
20		0	J	8 12 12		SC	
22			K	12 12			Bottom of boring Installed monitoring well
24							
26							

05/25/1990

000182513

Monitoring Well 14

Drilling Log

Project Texaco/Farmers Lane
Location Santa Rosa
Date Drilled 4/17/90
Surface Elevation
Screen: Dia 4 in
Casing: Dia 4 in
Filter Pack Material Lonestar #2/12 Sand
Drilling Company Sierra Pacific Drilling
Driller Gerald Harris
Geologist/Engineer A.B Storm

Owner Texaco Refining and Marketing
Project Number 205 150 4329
Total Depth of Hole 16 ft.
Water Level Initial 2.5 ft.
Length 6 ft.
Length 10 ft.
Diameter 10.5 in.
24-hour 7 ft.
Slot Size 0.020 in.
Type Sch 40 PVC
Drilling Method Hollow Stem Auger
Log by Chris McCormack
License No RG 4394

See Site Map For Boring Location

NOTES:

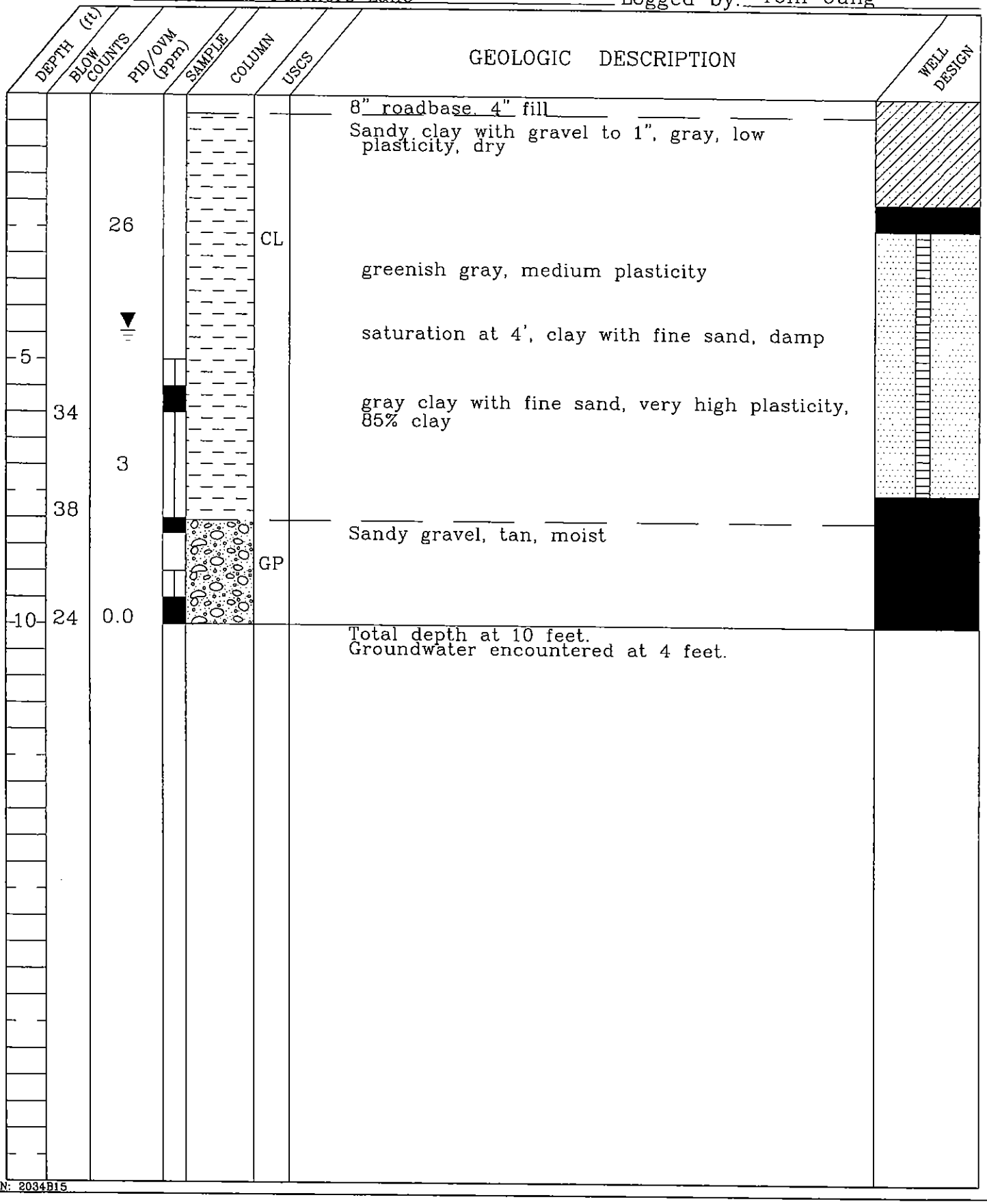
Depth (feet)	Well Completion	PID (ppm)	Sample ID / Blow Count	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0					CL	Black organic clay (stiff, moist, no odor).
2		0	A 4 5 7			Encountered water 4/17/90 (1515 hours).
4		0	B 4 6 8		SC	Medium brown to tan clayey sand, fine to medium grained with occasional gravel (saturated, no odor).
6		0			CL	Light gray to gray green sandy-silty clay, occasionally gravelly, local black stringers (soft to medium stiff, moist, no odor)
8			C 6 13 16			Encountered water 4/17/90 (1600 hours).
10		0	D 4 8 10		SC	Light gray to gray green sandy clay to clayey sand (soft to medium stiff, saturated, no odor).
12						Light to medium gray to grayish tan medium grain sand, well sorted, very few fines, flowing sand (saturated, no odor)
14		0	E 2 2 2		SP	
16						Bottom of boring Installed monitoring well.
18						
20						
22						
24						
26						

000182514

05/25/1990

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2034 Boring: B15/MW15 Plate: APPENDIX
Site: Former Exxon Service Station 7-0276 Date: 6/9/00
Drill Contractor: Gregg Drilling
Sample Method: Split Spoon Geologist: JOHN B. BOBBITT
Drill Rig: Mobil B-61 Bore Hole Diameter: 8" Signature:
Location: On the South Shoulder of Hoen Frontage Road Near Farmers Lane Registration: R.G. 4313
Logged by: Tom Culig



Casing Diameter: 2" Slot Size: 0.020 , Sand Size: #3 , Grout: Neat Cement

FN: 2034B15

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG MW16

(Page 1 of 2)

Project No.:	: 2034
Site:	: 1400 Farmers Blvd, Santa Rosa, CA
Logged By:	: Lyz A. Cullmann
Reviewed By:	: John Bobbitt, R.G. #4313
Signature:	:

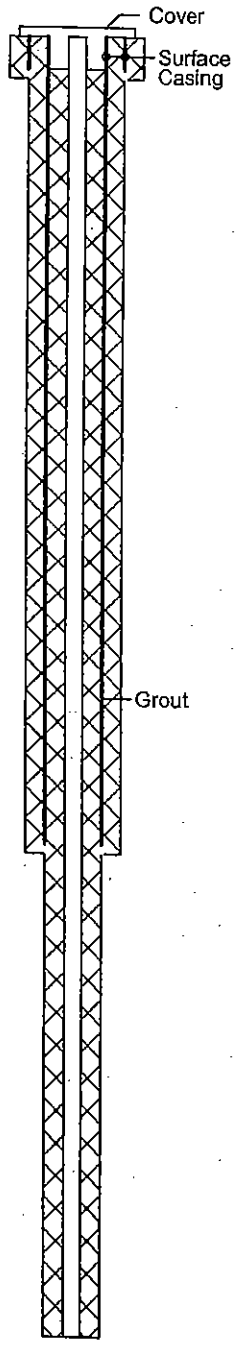
Date Drilled:	: 09/30/03-10/2/03
Drilling Co.:	: Woodward Drilling Co.
Drilling Method:	: Hollowstem Auger
Sampling Method:	: Split spoon
Borehole Diameter:	: 8" - 15"
Casing Diameter:	: 2"
Location N-S	: 30' S of Hoen Frontage Rd.
Location E-W	: 160' E of Farmers Ln
Total Depth:	: 60'
First GW Depth:	: 5.0

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: ▽ 5.0

Well: MW16
Elev.: 201.29

Depth (ft)	Blow Count	OVM/PID (ppmv)	USCS	DESCRIPTION
0				6" of Asphalt Hand-cleared to 4 feet below ground surface
10	18 18 20	39.6	ML	SANDY SILT: brown, damp, low plasticity, sand is fine- to medium-grained, trace carbon particles; (sand 80%, silt 20%)
15	12 19 20	20.5	SM	SAND: with silt: medium- to coarse-grained, brown, very moist, trace clay; (sand 85%, silt 15%)
20	19 19 20	7.0	ML	SANDY SILT: brown, moist, low plasticity, trace clay; (silt 75%, sand 25%)
25	19 20 21	5.8	CL	SANDY SILTY CLAY: brown, moist, medium plasticity; (clay is 50%, silt 30%, sand 20%)
30	10 10 12 17 9 9 12 20 10 12 16 22	8.6 170	ML	SANDY CLAYEY SILT: light brown, moist, medium plasticity, trace gravel, trace carbon SANDY CLAYEY SILT with GRAVEL: light brown, moist, medium plasicity SANDY CLAYEY SILT: light brown, moist medium plasticity, trace carbon
35	15 19 23 26 12 12 16 28 35 50/6	256 138.3	SM SM SM	SILTY SAND with CLAY: coarse-grained, dark brown, saturated, low plasticity grades into SILTY SAND with clay: fine-grained, grey-brown, moist, low plasticity SILTY SAND with CLAY: fine- to medium grained, grey-brown, moist, low plasticity, poorly sorted
40				CLAYEY SILTY SAND: medium-grained, red-brown, moist, low plasticity, moderately sorted.



ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG MW16

(Page 2 of 2)

Date Drilled:	: 09/30/03-10/2/03
Drilling Co.:	: Woodward Drilling Co.
Drilling Method:	: Hollowstem Auger
Sampling Method:	: Split spoon
Borehole Diameter:	: 8" - 15"
Casing Diameter:	: 2"
Location N-S	: 30' S of Hoen Frontage Rd.
Location E-W	: 160' E of Farmers Ln
Total Depth:	: 60'
First GW Depth:	: 5.0

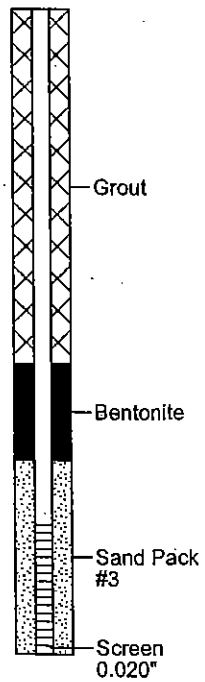
Project No.:	: 2034
Site:	: 1400 Farmers Blvd, Santa Rosa, CA
Logged By:	: Lyz A. Cullmann
Reviewed By:	: John Bobbitt, R.G. 4313
Signature:	:

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: ▼ 5.0

Well: MW16
Elev.: 201.29

Depth (ft)	Blow Count	OVM/PID (ppmv)	USCS	DESCRIPTION
40	29, 37, 50/6	101	SM	SILTY CLAYEY SAND with GRAVEL: fine- to medium-grained, grey-brown, moist, low plasticity
	9, 17, 20, 27		SM	SILTY SAND with CLAY with GRAVEL: fine-medium grained, grey-brown, moist, low plasticity, clast are volcanic. trace carbon, trace iron oxides
45	11, 11, 15, 25	14.4	SM	CLAYEY SAND with SILT: very coarse-grained, brown, saturated, low plasticity
	21, 26, 50/6		SM	CLAYEY SILT with SAND: grey-brown, moist, medium plasticity, trace gravel
50	17, 19, 21, 26, 19, 20, 27, 30, 42, 50/6	65.7	CL	SANDY CLAY with SILT: dark brown, moist, medium to high plasticity SANDY CLAY with SILT: grey-brown, moist, medium plasticity
	31, 39, 50/6	29.1	SM	CLAYEY SILT with SAND: mottled dark grey-green, moist, low plasticity, sand is medium-grained
55	12, 12, 29, 32	8.2	SM	SILTY SAND with CLAY: dark greenish-grey, very moist, low plasticity, increasing clay with depth, decreasing sand with depth
	17, 19, 21, 26		ML	SILTY SAND with CLAY: fine-grained, dark green-grey, moist, low plasticity, trace gravel SANDY CLAYEY SILT: dark gray-green, moist, low to medium plasticity
60				
65				
70				
75				
80				



ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG MW17

(Page 1 of 2)

Project No.:	: 2034
Site:	: 1400 Farmers Blvd, Santa Rosa, CA
Logged By:	: Lyz A. Cullmann
Reviewed By:	: John Bobbitt, R.G. 4313
Signature:	:

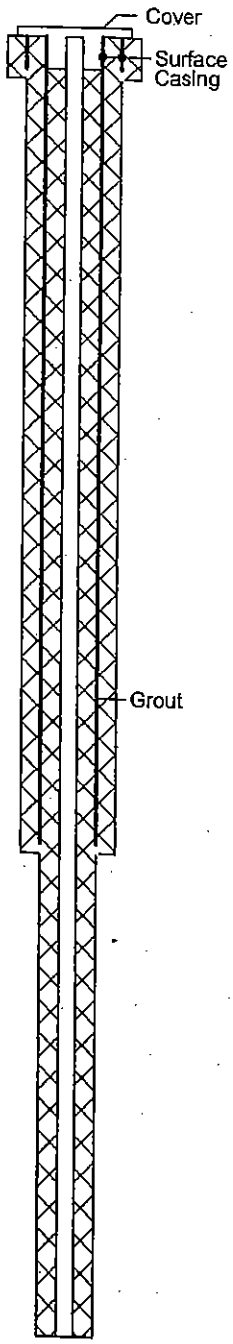
Date Drilled:	: 09/29/03-10/1/03
Drilling Co.:	: Woodward Drilling Co.
Drilling Method:	: Hollowstem Auger
Sampling Method:	: Split spoon
Borehole Diameter:	: 8" - 15"
Casing Diameter:	: 2"
Location N-S	: 65' S of Hoen Frontage Rd.
Location E-W	: 60 E of Farmers Ln.
Total Depth:	: 55.5'
First GW Depth:	: 5.0'

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: ▼ ; ▽ 5.0

Well: MW17
Elev.: 199.79

Depth (ft)	Blow Count	OVM/PID (ppmv)	USCS	DESCRIPTION
0				6" of Asphalt Hand-cleared to 4 feet below ground surface
5	21 22 25		SM	SAND with SILT: medium- to coarse-grained, orange-brown, very moist, poorly graded; (sand 80%, silt 20%)
10	35 50/6	0.0	GP	SANDY GRAVEL: fine to coarse (0.20"-1.5"), brown, saturated, moderately graded, sub-angular, sand is coarse-grained, trace clay; (gravel 60%, sand 40%)
15	17 19 25	0.0	SP	SAND with GRAVEL: coarse-grained, brown, saturated, poorly graded; (sand 80%, gravel 40%)
20	30 36 39	0.0		
25			ML	SILT: with SAND: brown, damp, low plasticity, sand is fine-grained, some carbon particles; (silt 80%, sand 20%)
30	28 40 50/6 35 42 50/5	9.8	SW	SILTY GRAVELLY SAND with clay: medium- to coarse grained, brown, very moist, low plasticity, sub-rounded; (sand 50%, gravel 20%, silt 18%, clay 12%)
	39 47 50/3		GM	SILTY GRAVEL with SAND: fine to coarse (0.75"-1.5"), light brown, saturated, sub-rounded; (gravel 65%, silt 20%, sand 15%)
			ML	SANDY SILT with GRAVEL with CLAY: moist, low plasticity, sub-angular, volcanic clast
35	37 45 50/5	9.5	SM	SILTY SAND with CLAY: fine-grained, mottled brown-grey, moist, low plasticity, sub-angular, volcanic clasts
	29 41 50/5 45 50/6			SILTY SAND with GRAVEL: medium-grained, light brown, very moist, low plasticity, poorly sorted, gravel is fine (0.20"-0.75"), volcanic clasts
40				



ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG MW17

(Page 2 of 2)

Project No.:	: 2034
Site:	: 1400 Farmers Blvd, Santa Rosa, CA
Logged By:	: Lyz A. Cullmann
Reviewed By:	: John Bobbitt, R.G. 4313
Signature:	:

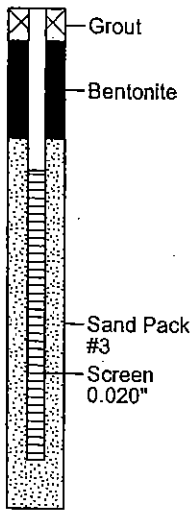
Date Drilled:	: 09/29/03-10/1/03
Drilling Co.:	: Woodward Drilling Co.
Drilling Method:	: Hollowstem Auger
Sampling Method:	: Split spoon
Borehole Diameter:	: 8" - 15"
Casing Diameter:	: 2"
Location N-S	: 65' S of Hoen Frontage Rd.
Location E-W	: 60 E of Farmers Ln.
Total Depth:	: 55.5'
First GW Depth:	: 5.0'

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: ▽ 5.0

Well: MW17
Elev.: 199.79

Depth (ft)	Blow Count	OVM/PID (ppmv)	USCS	DESCRIPTION
40	65/6			No recovery
	11 11 29 30		SM	SILTY SAND with CLAY: fine-medium grained, brown, very moist, low plasticity
	12 16 28 30	2.1	GC	SILTY CLAYEY GRAVEL with SAND: fine-medium grained, tan brown, very moist, poorly sorted,
45	26 39 50/6		SM	SILTY SAND with CLAY: fine-grained, dark brown, moist, low plasticity, moderately sorted, carbon fragments
	28 39 50/6		ML	CLAYEY SANDY SILT: dark brown, moist, moderate plasticity, moderately sorted, carbon
50	46 50/6	2.7	SM	SILTY SAND with CLAY: fine- to medium-grained, brown, very moist, trace gravel SILTY SAND: medium- to coarse-grained, dark brown, very moist, trace clay, trace gravel
	36 38 50/6		SM	SAND wilt SILT: coarse-grained, dark brown, saturated, trace clay
55	29 44 50/6	3.1		SAND wilt SILT: medium- to coarse-grained, dark brown, very moist, trace clay and gravel
60				
65				
70				
75				
80				



ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG MW18

(Page 1 of 3)

Project No.:	: 2034
Site:	: 1400 Farmers Blvd, Santa Rosa, CA
Logged By:	: Lyz A. Cullmann
Reviewed By:	: John Bobbitt, R.G. 4313
Signature:	: _____

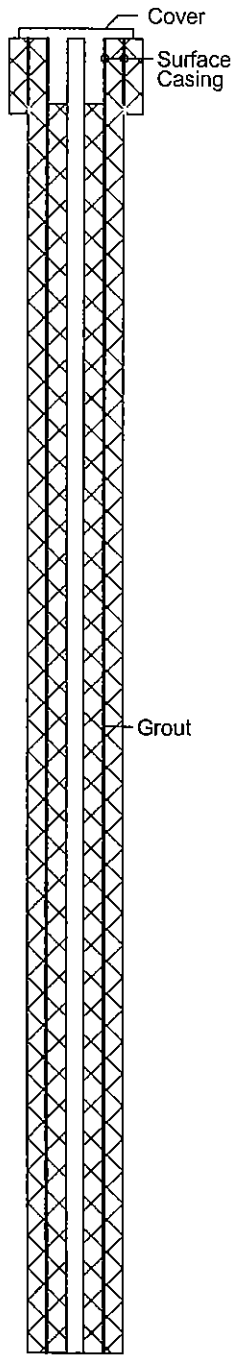
Date Drilled:	: 10/25/04-10/27/04
Drilling Co.:	: Woodward Drilling Co.
Drilling Method:	: Hollowstem Auger
Sampling Method:	: Split spoon
Borehole Diameter:	: 8" - 15"
Casing Diameter:	: 2"
Location N-S	: 34' N Hwy 12 off ramp
Location E-W	: 35' W of Farmers Lane
Total Depth:	: 48 feet bgs.
First GW Depth:	: 5.0'

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: 5.0'/36' bgs

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Cleared by vacuum extraction to 6 feet below ground surface
					CL	SANDY CLAY: brown, moist, medium plasticity; medium to coarse grained sand.
5	21 22 25				SM	SILTY SAND: fine- to medium-grained, brown, wet, poorly graded
10	35 50/6	0.0				No Recovery
					GW	grey-brown,
15	17 19 25	0.0				1" of recovery Sandy Gravel: brown, wet, well graded, sub-rounded
20						

Well: MW18
Elev.:



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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG MW18

(Page 2 of 3)

Project No.:	: 2034
Site:	: 1400 Farmers Blvd, Santa Rosa, CA
Logged By:	: Lyz A. Cullmann
Reviewed By:	: John Bobbitt, R.G. 4313
Signature:	: _____

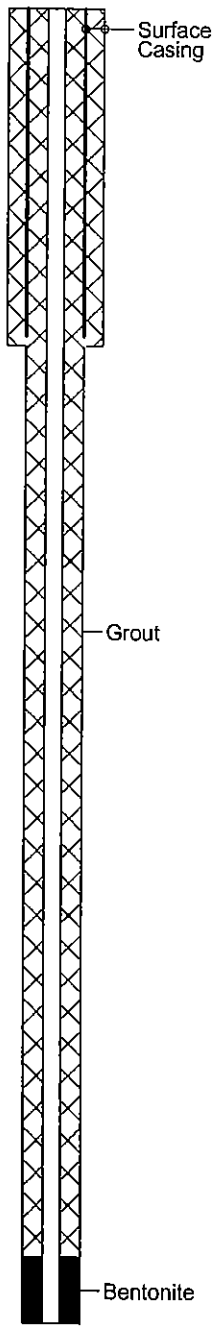
Date Drilled:	: 10/25/04-10/27/04
Drilling Co.:	: Woodward Drilling Co.
Drilling Method:	: Hollowstem Auger
Sampling Method:	: Split spoon
Borehole Diameter:	: 8" - 15"
Casing Diameter:	: 2"
Location N-S	: 34' N Hwy 12 off ramp
Location E-W	: 35' W of Farmers Lane
Total Depth:	: 48 feet bgs.
First GW Depth:	: 5.0'

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: 5.0'/36' bgs

Depth (ft)	Blow Count	OVM/PID (ppmv)	USCS	DESCRIPTION
20	15	0.0		
	15			SILTY SAND: fine-grained, brown, moist, poorly graded.
	20			
	15		SM	
	16			Wet
	18			
25	13			Set 8-5/8" casing at 25 feet bgs (10/25/04)
	14			Drill out grout with 8" auger (10/27/04)
	14	0.4		
	15			
	9			
	15			SAND WITH SILT: fine- to medium-grained, brown, moist, moderately graded
	21		SM	
	25	25		
	11			
	7			
30	13	0.4		
	21			
	13			
	14			
	15	0.7	SM	SILTY SAND: fine- to medium-grained, brown, moist, poorly graded, low plasticity
	40			
	14			
	17			
	31	0.8		
	32			
35	13			
	35		GW	SANDY GRAVEL: coarse-grained sand, dark gray, saturated, sub-rounded, well graded
	35			
	36	26		
	18			SAND: medium- to coarse-grained, dark gray, wet, well graded
	32			
	34		SW	
	36	0.9		grades into
	17			SAND WITH GRAVEL: medium- to coarse-grained, dark gray, wet, well graded
40	20			

Well: MW18
Elev.:



ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG MW18

(Page 3 of 3)

Project No.:	: 2034
Site:	: 1400 Farmers Blvd, Santa Rosa, CA
Logged By:	: Lyz A. Cullmann
Reviewed By:	: John Bobbitt, R.G. 4313
Signature:	: _____

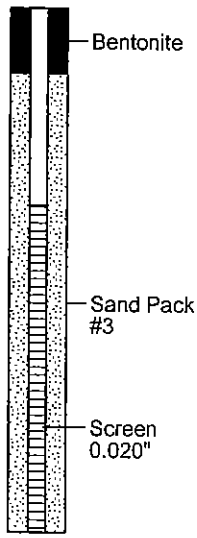
Date Drilled:	: 10/25/04-10/27/04
Drilling Co.:	: Woodward Drilling Co.
Drilling Method:	: Hollowstem Auger
Sampling Method:	: Split spoon
Borehole Diameter:	: 8" - 15"
Casing Diameter:	: 2"
Location N-S	: 34' N Hwy 12 off ramp
Location E-W	: 35' W of Farmers Lane
Total Depth:	: 48 feet bgs.
First GW Depth:	: 5.0'

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- 5.0'/36' bgs

Well: MW18
Elev.:

Depth (ft)	Blow Count	OVM/PID (ppmv)	USCS	DESCRIPTION
40	50/5	40.5	SW	SAND WITH GRAVEL: medium- to coarse-grained, dark gray, wet, well graded
				Skip sample-due to gravel and heaving sands
	18		SM	SAND with CLAY: medium- to coarse-grained, dark gray, wet, well graded
	22			
	50/6	76.4		
45	29			
	50/5	0.4		
	20		SW	SAND: medium- to coarse-grained, dark gray, wet, well graded, trace gravel
	40	0.0		
	50/5			
50				
55				
60				



Total Depth is 48 feet bgs

Groundwater encountered at 5 feet bgs and 36 feet bgs.

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: B16 Plate: 1 OF 1
Site: Former Exxon Service Station 7-0276 Date: 11/1/01
Drill Contractor: ERI Personnel
Sample Method: Hand Auger Geologist: John B. Bobbitt
Drill Rig: Hand Auger Bore Hole Diameter: 4" Signature:
Location: 6 feet east of utility vault on centerline of Hoen frontage road at 1400 Farmers Lane Registration: R.G. 4313
Logged by: Jeff Hislop

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					FILL	Asphalt: 8 inches	
					GM	Gravel: with silty sand, gray green, fine to coarse, sub-angular	
					CL	Silty clay: dry, light brown, low plasticity	
5						Total depth = 5.5 feet	
10							
15							
20							
25							
30							
35							
40							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland Type I/II

FN: 2034B16

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2034 Boring: B17 Plate: APPENDIX
Site: Former Exxon Service Station 7-0276 Date: 6/9/00
Drill Contractor: Gregg Drilling
Sample Method: Hand Auger Geologist: JOHN B. BOBBITT
Drill Rig: NA Bore Hole Diameter: ____ Signature: ____
Location: Between the Two Westbound Lanes of Hoen Frontage Road, 220' East of Farmers Lane Registration: R.G. 4313
Logged by: Janice Jacobson

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						8" roadbase	
						Gravelly sand, tan, dry	
					SP		
5		▼				sand, moist	
						wet	
						Total depth at 6 feet.	
						Groundwater encountered at 6 feet.	
10							

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Neat Cement

FN: 2034B17

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: B18 Plate: 1 OF 1
Site: Former Exxon Service Station 7-0276 Date: 12/18/01
Drill Contractor: ERI Personnel
Sample Method: Hand Auger Geologist: John B. Bobbitt
Drill Rig: Hand Auger Bore Hole Diameter: 2.5" Signature:
Location: 6 ft east and 6 ft south of utility vault on centerline of Hoen frontage Rd at 1400 Farmers Ln Registration: R.G. 4313
Logged by: Jeff Hislop

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					FILL	Asphalt: 8 inches	
					GM	Gravel with silty sand: light brown, gravel fine to coarse, sub-angular	
5						Total depth = 3.5 feet	
10							
15							
20							
25							
30							
35							
40							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland Type I/II

FN: 2034B18

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: GP1 Plate: 1 OF 1
Site: Former Exxon Service Station 7-0276 Date: 10/22/01
Drill Contractor: Vironex
Sample Method: Slide Hammer / Geoprobe Geologist: John B. Bobbitt
Drill Rig: 6600 Bore Hole Diameter: 4" Signature:
Location: 65 feet west of Farmers Lane Registration: R.G. 4313
and 13 feet north of Highway 12 Logged by: Jeff Hislop

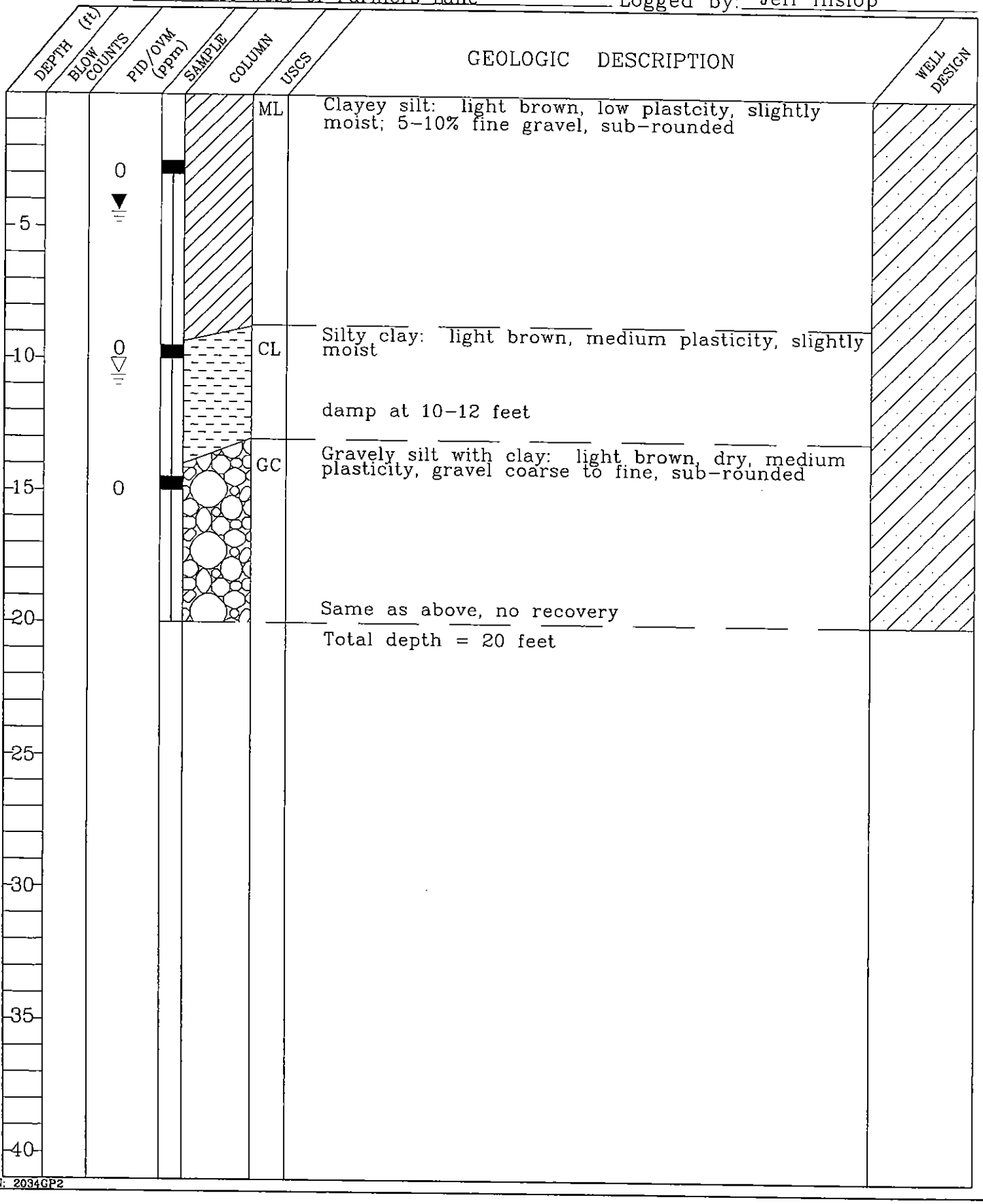
DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
0		0			SP	Sand: brown, poorly sorted sub-angular; 10% fine gravel, gravel sub-rounded, sand-fine to coarse, 5% silt, dry	
5							
		0 ▽				Water at 7 feet Moderatily sorted sand: medium to coarse grained, rounded, moist	
10							
15					GP	Sandy gravel: saturated, sub-rounded to sub-angular, fine to coarse, coarse sand, rounded	
20							
						Total depth = 21 feet	
25							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland Type I/II

FN: 2034GP1

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: GP2 Plate: 1 OF 1
Site: Former Exxon Service Station 7-0276 Date: 10/22/01
Drill Contractor: Vironex
Sample Method: Slide Hammer / Geoprobe Geologist: John B. Bobbitt
Drill Rig: 6600 Bore Hole Diameter: 4" Signature:
Location: 35 feet north of Highway 12 Registration: R.G. 4313
50 feet west of Farmers Lane Logged by: Jeff Hislop

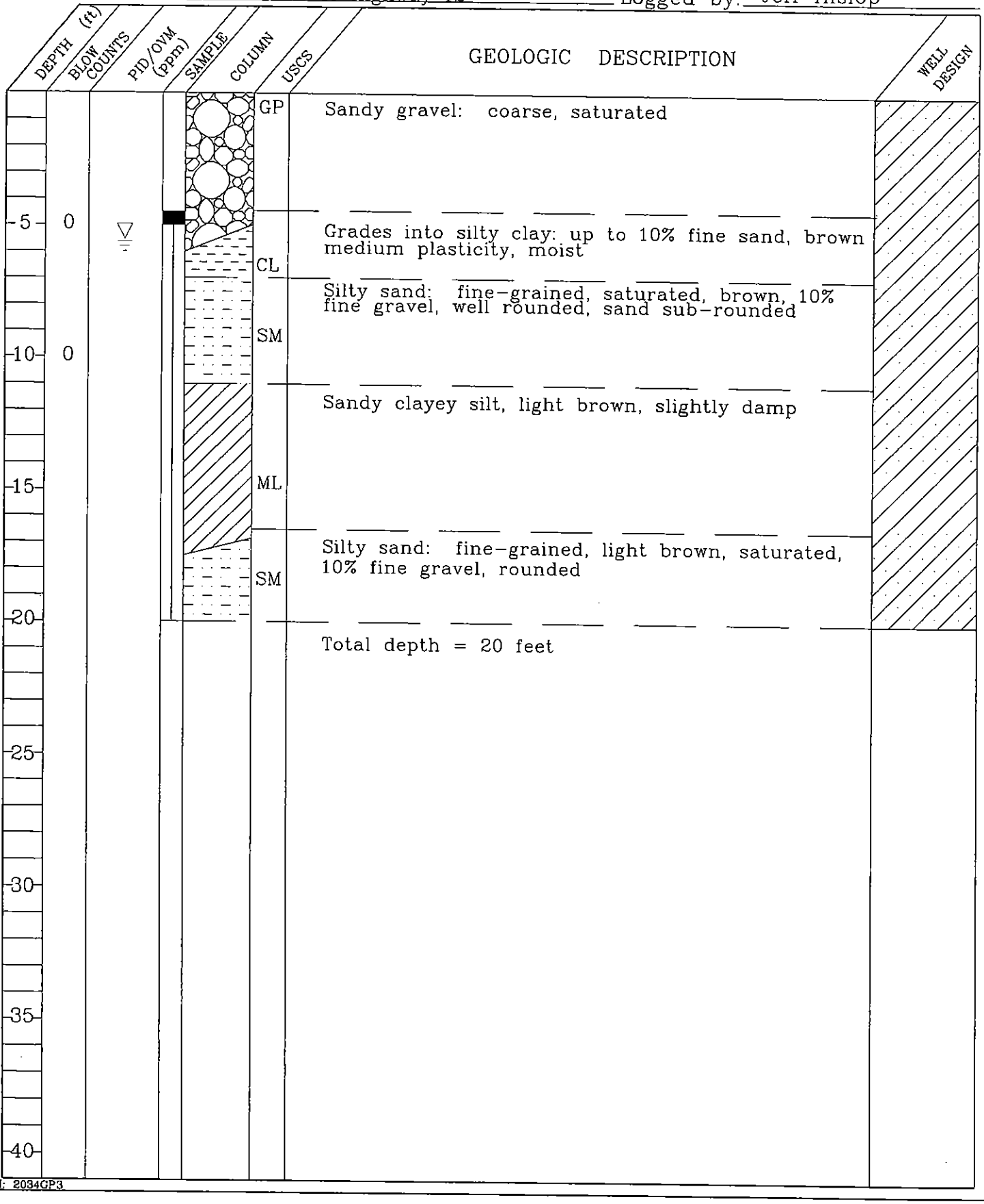


Casing Diameter: N//A Slot Size: N/A , Sand Size: N/A , Grout: Portland Type I/II

FN: 2034GP2

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: GP3 Plate: 1 OF 1
Site: Former Exxon Service Station 7-0276 Date: 10/22/01
Drill Contractor: Vironex
Sample Method: Slide Hammer / Geoprobe Geologist: John B. Bobbitt
Drill Rig: 6600 Bore Hole Diameter: 4" Signature:
Location: 28 feet west of Farmers Lane Registration: R.G. 4313
62 feet north of Highway 12 Logged by: Jeff Hislop



Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland Type I/II

FN: 2034GP3

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: GP4 Plate: 1 OF 1

Site: Former Exxon Service Station 7-0276 Date: 10/23/01

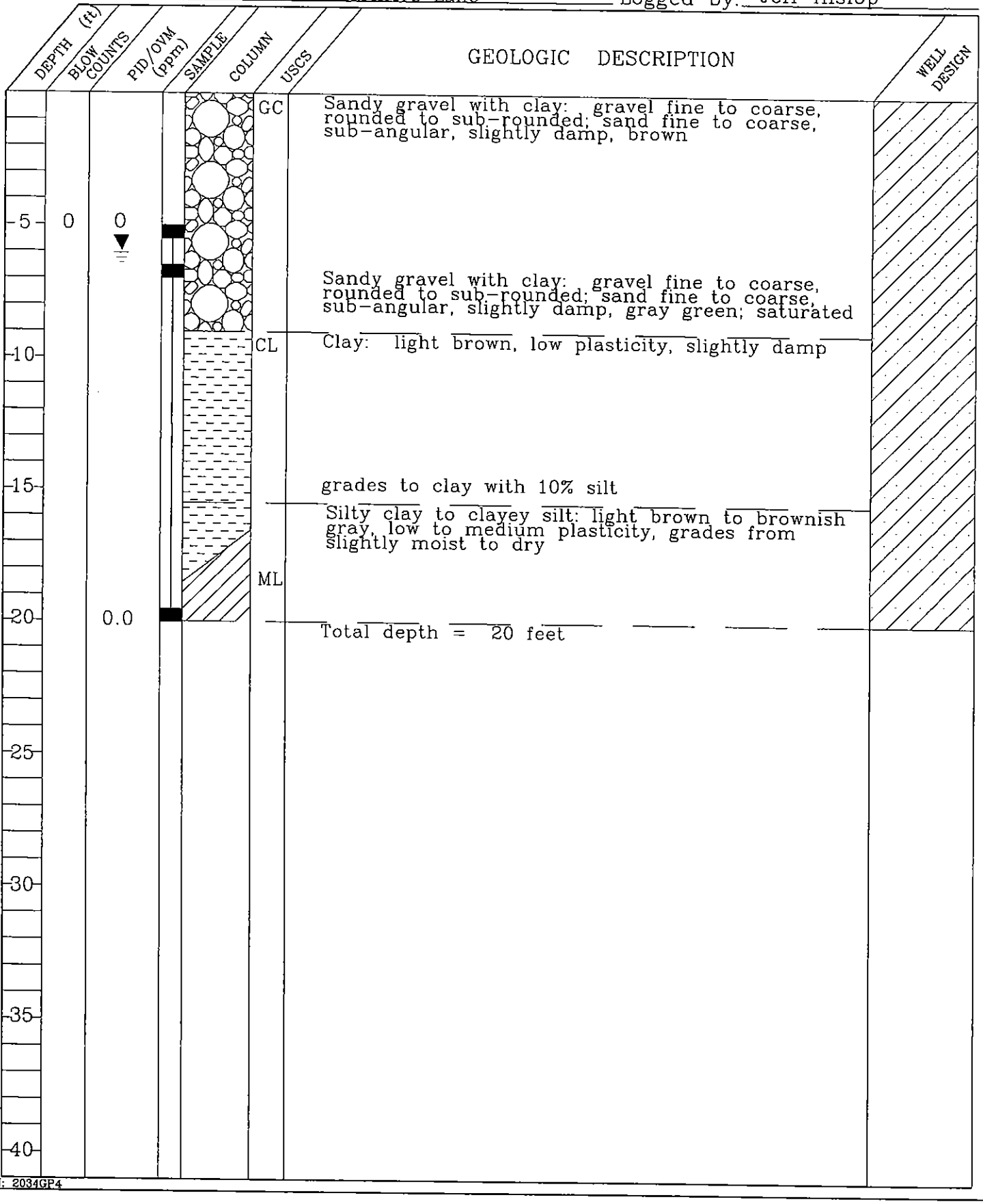
Drill Contractor: Vironex

Sample Method: Geoprobe Geologist: John B. Bobbitt

Drill Rig: 6600 Bore Hole Diameter: 4" Signature:

Location: 9 feet north of Highway 12 Registration: R.G. 4313

36 feet west of Farmers Lane Logged by: Jeff Hislop

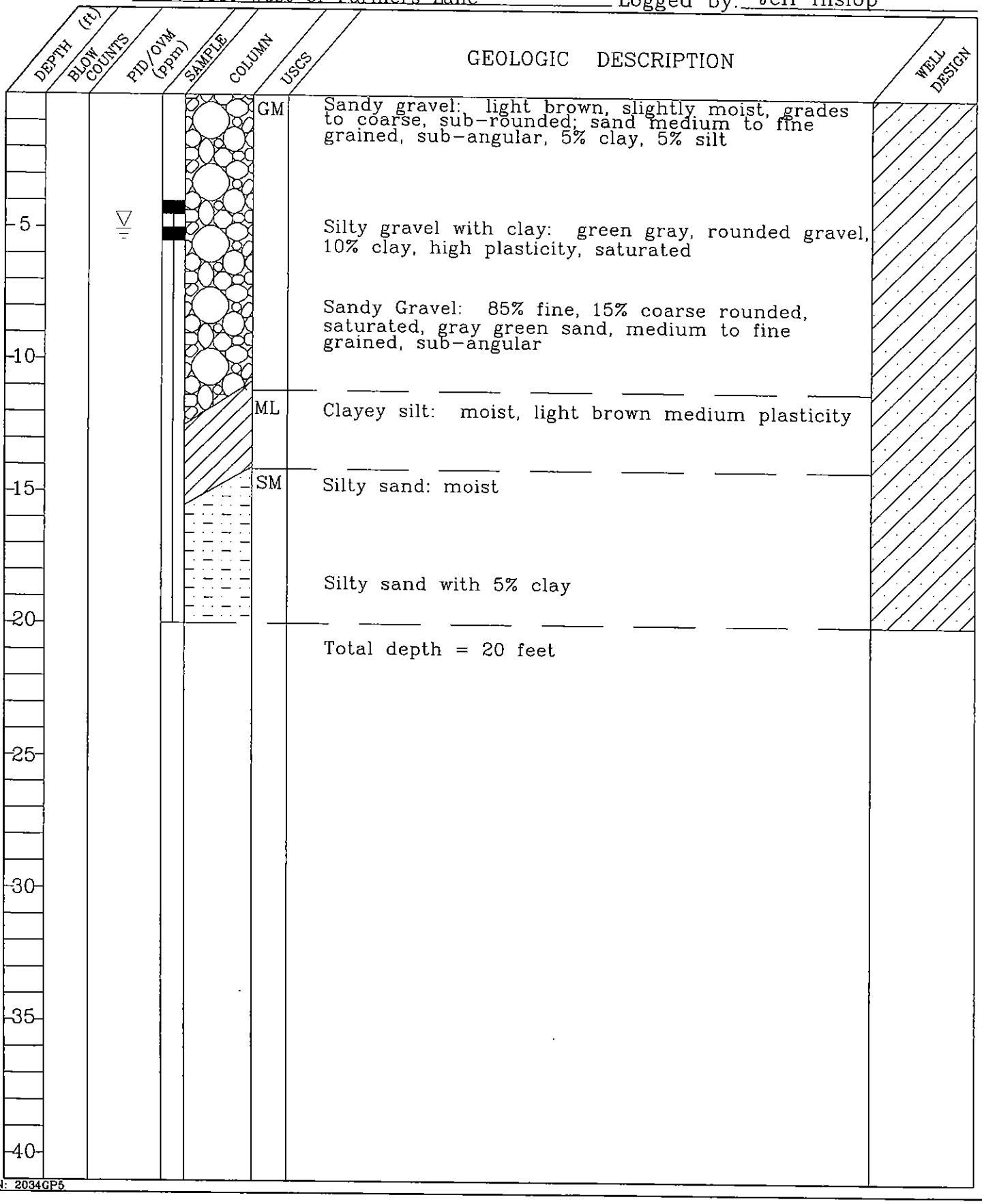


Casing Diameter: N/A Slot Size: N/A, Sand Size: N/A, Grout: Portland Type I/II

FN: 2034GP4

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: GP5 Plate: 1 OF 1
Site: Former Exxon Service Station 7-0276 Date: 10/23/01
Drill Contractor: Vironex
Sample Method: Geoprobe Geologist: John B. Bobbitt
Drill Rig: 6600 Bore Hole Diameter: 4" Signature:
Location: 18 feet north of Highway 12 Registration: R.G. 4313
27 feet west of Farmers Lane Logged by: Jeff Hislop



Casing Diameter: N/A Slot Size: N/A, Sand Size: N/A, Grout: Portland Type I/II

FN: 2034GP5

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: GP6 Plate: 1 OF 1
Site: Former Exxon Service Station 7-0276 Date: 10/23/01
Drill Contractor: Vironex
Sample Method: Geoprobe Geologist: John B. Bobbitt
Drill Rig: 6600 Bore Hole Diameter: 4" Signature:
Location: 35 feet north of Highway 12 Registration: R.G. 4313
24 feet west of Farmers Lane Logged by: Jeff Hislop

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
0		0			ML	Clayey silt with gravel: light brown, low plasticity, damp, 10% fine to coarse gravel	
5		17 ▽			CL	Silty clay with sand: gray green, moist, medium plasticity, 5% fine sand	
10					ML	Silt: brownish gray, saturated, high plasticity	
15					GC	Clayey gravel with sand: poorly sorted, fine to coarse gravel, sub-rounded; clay gray green high plasticity, fine to coarse sand, saturated	
20					GP	Sandy gravel: fine-to coarse-grained, sub-rounded, saturated, sand fine-to coarse-grained, sub-angular	
						Total depth = 21 feet	
25							
30							
35							
40							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland Type I/II

FN: 2034GP6

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: GP7 Plate: 1 OF 2
Site: Former Exxon Service Station 7-0276 Date: 10/24/01
Drill Contractor: Vironex
Sample Method: Geoprobe Geologist: John B. Bobbitt
Drill Rig: 6600 Bore Hole Diameter: 4" Signature:
Location: 9 feet west of east edge of planter Registration: R.G. 4313
9 feet north of south edge of planter Logged by: Jeff Hislop

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
		▽			GP	Gravel and topsoil fill: Gravel well rounded, coarse topsoil black	
						Gravel with sand: gravel rounded, fine to coarse, green blue; moist to saturated	
5		8.0					
					CL	Sandy clay with trace gravel: green gray; gravel sub-rounded; moist to saturated	
					GP	Sandy gravel: sub-rounded with coarse sand	
10					SP	Coarse sand: gray green, angular, moist	
		8.0			CL	Silty clay with sand: brownish gray, black mottling, slightly damp, 0.5 cm thick, black (carbonacous) lenses, low to no plasticity, 10% fine sand near 15 feet	
15					SM	Fine sand: with silt, grades into silty gravel with clay at 17 feet: fine 80%, coarse 20% rounded; (brown) damp	
20		0.0					
25		0.0			CL	Silty clay with gravel: brown, medium high plasticity, damp, minor mottling, (green, gray and black), 5 to 10% fine rounded gravel	
30		0.0				Silty clay with gravel: brown, medium high plasticity, damp, minor mottling, (green, gray and black); 5 to 10% fine rounded gravel, grades into fine sandy clay	
		▽			GP	Sandy gravel: saturated; gravel: fine rounded; sand: coarse, rounded, brown	
35		0.0				Sandy gravel with clay: saturated; gravel: fine rounded; sand: coarse, rounded, brown, damp	
						Gravely sand with clay: brown, damp, sand fine, gravel rounded	
					CL		
40		0.0				Grades into silty clay, brown, dry to damp, medium plasticity, 5% fine gravel (rounded)	

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland Type I/II

FN: 2034GP7

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: GP7 Plate: 2 OF 2
Site: Former Exxon Service Station 7-0276 Date: 10/24/01
Drill Contractor: Vironex
Sample Method: Geoprobe Geologist: John B. Bobbitt
Drill Rig: 6600 Bore Hole Diameter: 4" Signature:
Location: 9 feet west of east edge of planter Registration: R.G. 4313
9 feet north of south edge of planter Logged by: Jeff Hislop

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					CL	Silty clay with trace gravel: brown, dry to damp, medium plasticity, 5% fine gravel (rounded)	
45		0.0			ML	Grades into clayey silt: medium plasticity	
					CL	Grades into silt with clay with trace gravel: dark gray, slightly moist, 5 to 10% fine gravel, no plasticity to low plasticity, refusal	
50		0.0					
						Total depth = 51 feet (refusal)	

Casing Diameter: N/A Slot Size: N/A, Sand Size: N/A, Grout: Portland Type I/II

FN: 2034GP7a

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 203403 Boring: GP8 Plate: 1 OF 1
Site: Former Exxon Service Station 7-0276 Date: 10/25/01
Drill Contractor: Vironex
Sample Method: Geoprobe Geologist: John B. Bobbitt
Drill Rig: 6600 Bore Hole Diameter: 4" Signature:
Location: 14.5 feet esat of west edge of planter Registration: R.G. 4313
11 feet north of south edge of planter Logged by: Jeff Hislop

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
		7.8			CL	Sandy clay with fine gravel: moist, greenish black, medium to high plasticity, grades into sandy gravel at 3 to 4 feet, gravel	
5					GP	Sandy gravel: rounded, coarse to fine sand, blue green, saturated	
					CL	Silty clay with trace sand: brown, damp, 5% coarse sand, medium to high plasticity,	
10		3.8					
					OH	Clay: 1 foot thick with black mottling	
					CL	Silty clay with trace sand: brown, damp, 5% coarse sand, medium to high plasticity, grades into silt with fine sand, saturated at 16 to 19 feet medium to high plasticity	
15		2.3					
					ML	Silt with fine sand: brown, saturated at 16 to 19 feet medium to high plasticity	
20		0.0			CL	Silty clay with trace sand: brown, damp, 5% coarse sand, high plasticity	
					GM	Silty fine gravel: slightly moist, with fine sand, brown, rounded	
25		0.0			CL	Silty clay with trace gravel: brown, damp, 5% coarse sand, medium high plasticity, trace fine rounded gravel	
30		0.0			SM	Silty sand: fine, brown, saturated, high plasticity	
					CL	Silty clay, dry, light brown, low plasticity 5% coarse sand	
35		0.0				Total depth = 35 feet	
40							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland Type I/II

FN: 2034GP8

APPENDIX D

SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES FROM SOIL BORINGS

TABLE 2
ANALYTICAL LABORATORY RESULTS
OF GRAB
GROUNDWATER SAMPLES
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Sample ID	Date Collected	Sample Depth (ft bgs)	TEPHd	TPPHg	MTBE	B	T	E	X
			<.....ug/L.....>						
W-5-B15	06/09/00	5	74	55	62/93*	0.97	1.1	1.6	5.1
W-4-B17	06/09/00	4	<50	<50	<2	<0.5	<0.5	0.61	3.6

Notes:

W-5-B15	=	Water sample - depth - boring number.
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using EPA Method 8015 (modified)/8020 (modified).
TEPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
ft bgs	=	Feet below ground surface.
---	=	Not measured/Not analyzed.
<	=	Not detected at or above the stated laboratory method detection limits.
ug/L	=	Micrograms per liter.
*	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.

TABLE 3
Analytical Laboratory Results of Groundwater Samples
Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Sample ID	Sample Date	Sample Depth (bgs)	TPHd	TPHg	MTBE	B	T	E	X	TAME	ETBE	DIPE	TBA	1,2-DCA	EDB
		<.....feet.....>	<.....ug/L.....>												
WGP1-7	10/22/01	7	<83	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<20	2.0	<1.0
WGP1-21	10/22/01	21	<67	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<20	<1.0	<1.0
WGP2-11	10/22/01	11	<59	<50	<1.0	0.75/<0.50a	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<20	3.0	<1.0
WGP3-5	10/23/01	5	<150	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<20	<1.0	<1.0
WGP3-20	10/23/01	20	<79	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<20	<1.0	<1.0
WGP4-5	10/24/01	5	190b	2000 d	<10	43/30a	1.9/<10a	3.5/<10a	3.5/<20a	<10	<10	<10	<100	<10	<10
WGP5-5	10/24/01	5	150b	2200 d	<20	220/200a	260/240a	79/58a	330260a	<20	<20	<20	<200	<20	<20
WGP5-21	10/24/01	21	<55	1200 d	<10	140/170a	69/78a	54/79a	95/120a	<10	<10	<10	<100	<10	<10
WGP6-6	10/23/01	6	<57	160 d	<1.0	27/30a	3/3.1a	16/19a	25/28a	<1.0	<1.0	<1.0	23	2.6	<1.0
WGP6-21	10/23/01	21	<58	<50	<1.0	1.3/1.3a	<0.50	0.62/<1.0a	<0.50	<1.0	<1.0	<1.0	<20	<1.0	<1.0
WGP7-31	10/24/01	31	70b	<50	<2.0	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<20	<2.0	<2.0
WGP8-18	10/25/01	18	210b	920	36	<0.50	1.8/5.0a	31/39a	91/100a	<4.0	<4.0	<4.0	<40	<4.0	<4.0
WGP8-32	10/25/01	31	82b	370	9.0	<0.50	1.1/2.6a	14/20a	54/67a	<2.0	<2.0	<2.0	<20	<2.0	<2.0
Standing Water	10/23/01	surface	<56	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<20	<1.0	<1.0
WB-18c	12/18/01	2.5	220	1,400	7	120	3.9	180	11	---	---	---	---	---	---

Notes:

ug/L	=	Micrograms per liter.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 with silca gel cleanup.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015.
MTBE	=	MTBE analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethene analyzed using EPA Method 8260B.
EDB	=	Ethylene dibromide analyzed using EPA Method 8260B.
<	=	Less than the stated laboratory method reporting limit.
---	=	Not sampled.
bgs	=	Below ground surface.
a	=	BTEX analyzed using EPA Method 8260B.
b	=	Detected results for Diesel Range Organics; however, laboratory indicates that chromatogram patterns do not resemble a diesel pattern.
c	=	Sample invertantly mis-labeled in the field.
d	=	Hydrocarbon pattern is present in the requested fuel quantification range but dose not resemble the pattern for the requested fuel.

TABLE 4
Analytical Laboratory Results of Groundwater Samples for Additional VOCs
Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Sample ID	Sample Date	Sample Depth (bgs)	Napthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trichlorobenzene	Isopropylbezene	n-Propylbezene	n-Butylbenzene
		<.....feet.....>	<.....ug/L.....>						
WGP1-7	10/22/01	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
WGP1-21	10/22/01	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
WGP2-11	10/22/01	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
WGP3-5	10/23/01	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
WGP3-20	10/23/01	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
WGP4-5	10/24/01	5	<25	<10	<10	<10	<10	<10	<10
WGP5-5	10/24/01	5	<50	26	<20	<20	<20	<20	<20
WGP5-21	10/24/01	21	<25	14	<10	<10	13	10	<10
WGP6-6	10/23/01	6	1.5	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
WGP6-21	10/23/01	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
WGP7-31	10/24/01	31	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
WGP8-18	10/25/01	18	<10	68	20	<4.0	5.9	10	5.4
WGP8-32	10/25/01	31	<5.0	<2.0	10.0	34	2.9	4.1	2.4
Standing Water	10/23/01	surface	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

ug/L	=	Micrograms per liter.
Napthalene	=	Napthalene analyzed using EPA Method 8260B.
1,2,4-Trimethylbenzene	=	1,2,4-Trimethylbenzene analyzed using EPA Method 8260B.
1,3,5-Trimethylbenzene	=	1,3,5-Trimethylbenzene analyzed using EPA Method 8260B.
1,2,4-Trichlorobenzene	=	1,2,4-Trichlorobenzene analyzed using EPA Method 8260B.
Isopropylbezene	=	Isopropylbezene analyzed using EPA Method 8260B.
n-Propylbezene	=	n-Propylbezene analyzed using EPA Method 8260B.
n-Butylbenzene	=	N-Butylbenzene analyzed using EPA Method 8260B.
<	=	Less than the stated laboratory method reporting limit.
---	=	Not sampled.
bgs	=	Below ground surface.

TABLE 2
Analytical Laboratory Results of Groundwater Samples Collected from Soil Borings
Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Sample ID	Sample Date	Sample Depth (bgs)	TPHd	TPHg	MTBE	B	T	E	X
		<.....feet.....>	<.....ug/L.....>						
W-32-MW17	10/1/2003	32	160	<50.0	1.4/2.00a	<0.50	<0.5	0.7	3.2
W-36-MW16	10/2/2003	36	<50	312	11.5/19.0a	<0.50	8.5	11.4	60.7

Notes:

W-36-MW16	=	Water sample-depth in feet below ground surface monitoring well number.
ug/L	=	Micrograms per liter.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE	=	MTBE analyzed using EPA Method 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
<	=	Less than the stated laboratory method reporting limit.
bgs	=	Below ground surface.
a	=	MTBE confirmed using EPA Method 8260B.

APPENDIX E

DISSOLVED-PHASE MASS CALCULATIONS

Using the results of the December 15, 2004 monitoring and sampling event, ERI calculated the estimated mass of dissolved TPHd, TPHg, Benzene, and MTBE in the on-site plume and off-site plume.

For the on-site plume, ERI calculated the volume of water impacted by each constituent. To calculate the volume of water in the on-site plume, ERI assumed a porosity of 35% and used a depth of 25 feet (the distance from the average depth to water to the finer grained sediments that provides a limiting barrier between monitoring wells screened in first encountered groundwater and the wells screened in the deeper sediments). Using the isoconcentration maps of dissolved TPHd, TPHg, Benzene, and MTBE, ERI then calculated the average concentration within the areas defined by the isoconcentration contours, which is considered the representative concentration. The mass of dissolved TPHd, TPHg, Benzene, and MTBE within each contour interval was calculated by multiplying the representative concentration by the volume of water within the contour interval. The total mass in the on-site plume was calculated by summing the calculated masses within each contour interval.

For the off-site plume, ERI used the same procedure for the on-site plume expect to calculate the volume of water in the off-site plume, ERI conservatively estimated that the offsite plume covers an area of 1000 sq feet and assumed a porosity of 35% and depth 25 feet. Also, for the off-site plume calculation, ERI used the concentration of dissolved TPHd, TPHg, Benzene, and MTBE in well MW10 during the December 15, 2004 monitoring and sampling event as the representative concentration.

TABLE E-1
DISSOLVED PHASE COC MASS CALCULATIONS
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California
(Page 1 of 1)

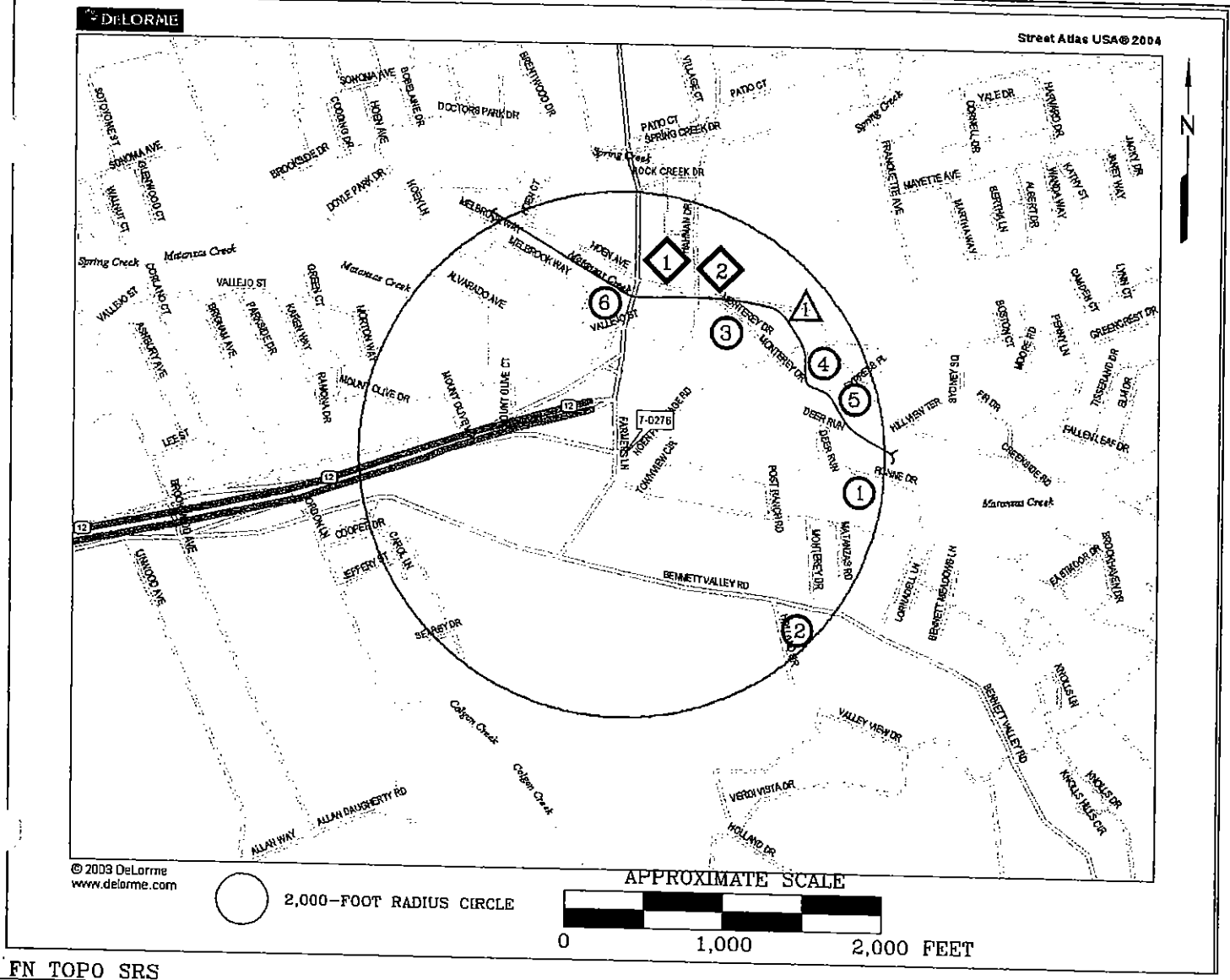
	Range of Contour Interval	Length * Width*Depth*Porosity	Volume	Area	Water Concentrations in Area	Representative Concentration	Mass in Pounds	Mass in mg
On-site Plume								
TPHd	> 1000	12*18*25*.35	1890	216	1100 + 1000	1050	0.123591513	56060.17
	100-1000	125*90*25*.35	96548	11250	1000+100	550	3.307053852	1500054.39
	10-100	160*230*25*.35	223562.50	36800	100+10	55	0.765771487	347348.10
	10-1	180*240*25*.35	56000.00	43200	10+1	6	0.019181752	8700.70
							4.22	1912163.36
TPHg	> 1000	40*45*25*.35	15750.00	1800	4380+1000	2690	2.638580709	1196840.08
	100-1000	115*85*25*.35	69781.25	9775	1000+100	550	2.390226071	1084188.31
	10-100	120*120*25*.35	40468.75	14400	100+10	55	0.138618126	62876.12
	10-1	170*145*25*.35	89687.50	24650	10+1	6	0.030720774	13934.71
							5.20	2357839.22
MTBE	> 100	125*40*25*.35	43750.00	5000	116+100	108	0.294265507	133476.59
	10-100	130*60*25*.35	24500.00	7800	100+10	55	0.083920163	38065.55
	1-10	180*120*25*.35	120750.00	21600	10+1	6	0.041360652	18760.88
							0.42	190303.01
Benzene	> 10	60*50*25*.35	26250.00	3000	86+10	48	0.078470802	35593.76
	10-1	130*90*25*.35	76125.00	11700	10+1	6	0.026075194	11827.51
							0.10	47421.27
Off-site Plume								
TPHd	—	10*100*25*.35	31500	3600	982	982	1.926458183	873826.73
TPHg	—	10*100*25*.35	31500	3600	9120	9120	17.8913428	8115376.58
MTBE	—	10*100*25*.35	31500	3600	8	8	0.015890337	7207.74
Benzene	—	10*100*25*.35	31500	3600	705	705	1.383047881	627339.97

Notes:

mg/Kg = Milligrams per kilogram.

APPENDIX F

RESULTS OF SENSITIVE RECEPTOR SURVEYS



FN TOPO SRS

EXPLANATION

SENSITIVE RECEPTORS

WATER WELLS

1. 1690 Ronne Dr. (1,905 Ft.)
2. 3356 Holland Dr. (1,818 Ft.)
3. 1423 Monterey Dr. (1,300 Ft.)
4. 3308 Cypress Way (1,732 Ft.)
5. 3322 Cypress Way (1,818 Ft.)
6. 2455 Melbrook Way (1,125 Ft.)

SURFACE WATER

1. Matanzas Creek (1,386 Ft.)

SCHOOLS

1. Daycare 2495 Hoen Ave. (1,386 Ft.)
2. Montgomery High School 1260 Hannan Dr. (1,472 Ft.)

HOSPITALS

1. None

NEAREST BASEMENT

None

ERI ENVIRONMENTAL RESOLUTIONS, INC

SENSITIVE RECEPTOR MAP

FORMER EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

PROJECT NO. 2034

PLATE 1

EXPLANATION

1/4–mile radius circle

N

APPROXIMATE SCALE

0 .15 .30 mile

SOURCE:
Modified from a map
provided by
DeLorme Street Atlas

ENVIRONMENTAL RESOLUTIONS, INC.

WELL LOCATION MAP

FORMER EXXON SERVICE STATION 7–0276
1400 Farmers Lane
Santa Rosa, California

PROJECT NO.
2034

PLATE
5

TABLE 3
Water Well Survey Results
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Map ID	Well ID	Address	Year Drilled	Total Depth	Distance to Site	Use	Status	Field Information
Information obtained from the DWR.								
	49-1840	2701 Bennett Valley Road	1952	200	N/A	Domestic	N/A	Unable to Locate Property
A	113288	2938 Bennett Valley Road	1966	135	1,275	Domestic	Active	Well located
	49-1839	2951 Bennett Valley Road	1950	113	N/A	Domestic	N/A	Unable to Locate Property
	45537	1349 Hahman Drive	1957	46	N/A	Domestic	Abandoned	Property Located, connected to City Wat
	23690	2332 Hoen Avenue	1956	80	N/A	Domestic	N/A	Unable to Locate Property
	23699	2332 Hoen Avenue	1956	80	N/A	Domestic	N/A	Unable to Locate Property
	49-1688	2457 Hoen Avenue	1950	102	N/A	Domestic	N/A	Unable to Locate Property
	23784	3052 Hoen Avenue	1957	72	N/A	Domestic	N/A	Unable to Locate Property
	49-1838	3090 Hoen Avenue	1951	136	N/A	Domestic	N/A	Unable to Locate Property
	3840	3098 Hoen Avenue	1954	60	N/A	Domestic	N/A	Unable to Locate Property
Information obtained from the City of Santa Rosa Utility Billing Accounts with Wells List.								
		2973 Bennett Valley Road	N/A	N/A	N/A	Domestic	N/A	Unable to Locate well
D		2254 Hoen Avenue	N/A	N/A	N/A	N/A	N/A	Unable to Locate Property
		2455 Melbrook Way	N/A	N/A	N/A	N/A	Abandoned	Unable to Locate Property
B		2419 Vallejo Street	N/A	N/A	1,250	Domestic	Active	Property Located, residence

TABLE 3
Water Well Survey Results
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Map ID	Well ID	Address	Year Drilled	Total Depth	Distance to Site	Use	Status	Field Information
Addresses not listed on the City of Santa Rosa Utility Billing Accounts List.								
		2455 Bennett Valley Road					No wells observed	Unable to Locate Property
		2670 Bennett Valley Road					No wells observed	Unable to Locate Property
		2930 Bennett Valley Road					No wells observed	Unable to Locate Property
		1400 Farmers Lane					No wells observed	Service Station connected to City Water
		1416 Farmers Lane					No wells observed	Commercial connected to City Water
		1460 Farmers Lane					No wells observed	Commercial connected to City Water
		1500 Farmers Lane					No wells observed	Commercial connected to City Water
		1513 Farmers Lane					No wells observed	Commercial connected to City Water
		2367 Hoen Avenue					No wells observed	Unable to Locate Property
		2457 Hoen Avenue					No wells observed	Unable to Locate Property
		2495 Hoen Avenue					No wells observed	Property Located, private residence
		2550 Hoen Avenue					No wells observed	Unable to Locate Property
		2138 Mount Olive Court					No wells observed	Unable to Locate Property
E		2101 Mount Olive Drive					No wells observed	Unable to Locate Property
		2072 Mount Olive Way	Tenant response , no wells				No wells observed	Private residence connected to City Wate
		2074 Mount Olive Way					No wells observed	Property Located, private residence

TABLE 3
Water Well Survey Results
Former Exxon Service Station 7-0276
1400 Farmers Lane
Santa Rosa, California

Map ID	Well ID	Address	Year Drilled	Total Depth	Distance to Site	Use	Status	Field Information
		2076 Mount Olive Way					No wells observed	Property Located, private residence
		2078 Mount Olive Way					No wells observed	Property Located, private residence
		1416 Townview Avenue					No wells observed	Unable to Locate Property
		1420 Townview Avenue					No wells observed	Unable to Locate Property
		1432 Townview Avenue					No wells observed	Unable to Locate Property
C, f		1450-1478 Townview Avenue 1488-1492 Townview Avenue	N/A	N/A	1,300	Domestic	N/A	Property Located Townhouse sub-division
		1400, 1416, 1426 Townview Lane					No wells observed	Commercial connected to City Water
		1440 Townview Lane					No wells observed	Commercial connected to City Water
		1460 Townview Lane					No wells observed	Unable to Locate Property
		2460 Vallejo Street	Tenant response , no wells				No wells observed	Property Located, residence

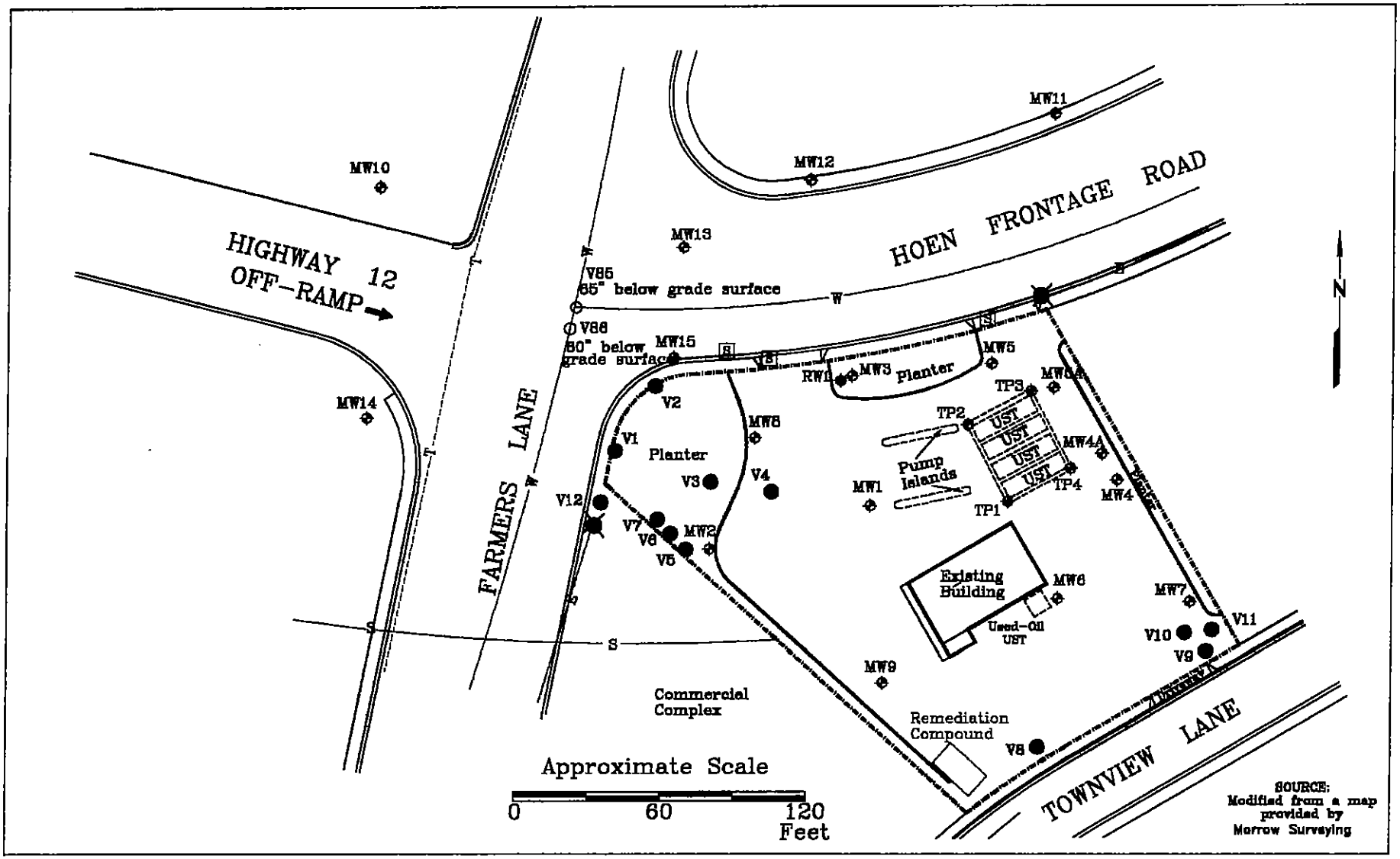
Notes:
ERI assigned designation corresponds to approximate location depicted on Plate 5.

NA	=	Not available
A,B,C	=	Symbol representing well on Plate 5.
D	=	Abandoned well on 2455 Hoen Avenue.
E	=	Possible dómestic well house on 2103 Hoen Avenue.
f	=	One main domestic well for entire sub-division.

Well information provided by:

Department of Water Resources (DWR). Records located at DWR Central District 3251 S. Street, Sacramento, CA, 95816-7017
City of Santa Rosa - Water Division
City of Santa Rosa - Public Works

All depths and distances are measured in feet.



FN 2034002a

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

- MW1 — Groundwater Monitoring Well
- RW1 — Recovery Well
- Sewer —S—
- Water —W—
- Electric —E—
- Telephone —T—
- Light Post
- [S] Storm Drain
- V12 — Utility Vaults
- V85 — Water main valves

PROJECT NO. 2034

PLATE 2

July 10, 2000

APPENDIX G

REGULATORY CRITERIA

TABLE 2-1: BENEFICIAL USES OF SURFACE WATERS OF THE NORTH COAST REGION

HU/HA/HSA	HYDROLOGIC UNIT/AREA/SUBUNIT/ DRAINAGE FEATURE	BENEFICIAL USES																											
		MUN	AGR	IND	PRO	GWR	FRSH	NAV	POW	REC1	REC2	COMM	WARM	COLD	BSA	SAL	WILD	RARE	MAR	MIGR	SPWN	SHELL	EST	AQUA	GWL	FLD	WET	WQE
113.60	Pt Arena Hydrologic Area																												
113.61	Greenwood Creek Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E		E			E	E		E	E		E	P				
113.62	Elk Creek Hydrologic Subarea	P	P	E	P	E	E	E	P	E	E	E		E			E	E		E	E		E	P				
113.63	Alder Creek Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E		E			E	E		E	E		E	P				
113.64	Brush Creek Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E		E			E	E		E	E		E	P				
113.70	Garcia River Hydrologic Area	E	E	E	P		E	E	P	E	E	E		E			E	E		E	E		E	P				
113.80	Gualala River Hydrologic Area																												
113.81	North Fork Gualala Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E		E			E	E		E	E			E				
113.82	Rockpile Creek Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E		E	P				
113.83	Buckeye Creek Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E			P				
113.84	Wheatfield Fork Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E			P				
113.85	Gualala Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E	E		E	E		E	E			P				
113.90	Russian Gulch Hydrologic Area	E	E	E	P	E				E	E	P		E		E	E			E	E			E				
114.00	Russian River Hydrologic Unit																												
114.10	Lower Russian River Hydrologic Area																												
114.11	Guerneville Hydrologic Subarea	E	E	E	P	E	E	E	E	E	E	E	E	E	E		E	E		E	E		E	P				
114.12	Austin Creek Hydrologic Subarea	E	E	E	P	E		E	E	E	E	E	E	E			E	E		E	E			P				
114.20	Middle Russian River Hydrologic Area																												
114.21	Laguna Hydrologic Subarea	P	E	E	P	E	E	E	P	E	E	E	E	E			E	E		E	E	P		P				
114.22	Santa Rosa Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E	E		E	E		E	E	P		P				
114.23	Mark West Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E			E	E		E	E	P		P				
114.24	Warm Springs Hydrologic Subarea	E	E	E	P	E	E	E	E	E	E	E	E	E	E		E	E		E	E			E				
114.25	Geyserville Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E			E	E		E	E	P		P				
114.26	Sulphur Creek Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E			P				
114.30	Upper Russian River Hydrologic Area																												
114.31	Ukiah Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E			E	E		E	E	P		P				
114.32	Coyote Valley Hydrologic Subarea	E	E	E	P	E	E	E	E	E	E	E	E	E			E	E		E	E			P				
114.33	Forsythe Creek Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E			P				
115.00	Bodega Hydrologic Unit																												
115.10	Salmon Creek Hydrologic Area	E	E	E	P	E		E		E	E	E		E	E		E	E		E	E	P	E	P				
115.20	Bodega Harbor (or Bay) Hydrologic Area	E	E	E	P	E		E		E	E	E		E	E		E	E	E	E	E	E		E				
115.30	Estero Americano Hydrologic Area	E	E	E	P	E		E		E	E	E		E			E	E	E	E	E	P	E	P				
115.40	Estero de San Antonio Hydrologic Area	E	E	E	P	E		E		E	E	E		E			E	E	E	E	E	P	E	P				
	Minor Coastal Streams (not listed above**)	E	P	P	P	P	P	P		P	P	E	P	P	P		E	E	P	P	P		E	P	P			
	Ocean Waters			P	P			E		E	E	E			P		E	E	E	E	E	E		E				
	Bays			P	P			E		P	E	E	P	E	P		E	P	E	E	E	E	P	P	P			
	Saline Wetlands			P		P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	E	P
	Freshwater Wetlands	P	P	P		P	P	P		P	P	P	P	P	P		P	P		P	P	P	P	P	P	P	E	P
	Estuaries	P	P	P	P		P	E	P	E	E	P	P	E	P		E	P	E	E	E	E	E	P	P			
	Groundwater	E	E	E	P																			P	E			

Waterbodies are grouped by hydrologic unit (HU) or hydrologic area (HA)

**Permanent or Intermittent P= Potential E=Existing

*EST use applies only to the estuarine portion of the waterbody as defined in Chapter 2

TABLE 3-2

INORGANIC, ORGANIC, AND FLUORIDE CONCENTRATIONS NOT TO BE EXCEEDED IN DOMESTIC OR MUNICIPAL SUPPLY [1, 2]

Constituent	LIMITING CONCENTRATION IN MILLIGRAMS PER LITER			
	Lower	Optimum	Upper	Maximum Contaminant Level, mg/L
Fluoride [3]				
53.7 and below	0.9	1.2	1.7	2.4
53.8 to 58.3	0.8	1.1	1.5	2.2
58.4 to 63.8	0.8	1.0	1.3	2.0
63.9 to 70.6	0.7	0.9	1.2	1.8
70.7 to 79.2	0.7	0.8	1.0	1.6
79.3 to 90.5	0.6	0.7	0.8	1.4
Inorganic Chemicals				
* Aluminum				1.0
Arsenic				0.05
Barium				1.0
Cadmium				0.01
Chromium				0.05
Lead				0.05
Mercury				0.002
Nitrate-N (as NO_3)				45
Selenium				0.01
Silver				0.05
Organic Chemicals				
(a) Chlorinated Hydrocarbons				
Endrin				0.0002
Lindane				0.004
Methoxychlor				0.1
Toxaphene				0.005
(b) Chlorophenoxys				
2,4-D				0.1
2,4,5-TP (Silvex)				0.01
(c) Synthetics				
Atrazine				0.003
Bentazon				0.018
Benzene				0.001
Carbon Tetrachloride				0.0005
Carbofuran				0.018
Chlordane				0.0001

TABLE 3-2 (CONTINUED)

INORGANIC, ORGANIC, AND FLUORIDE CONCENTRATIONS NOT TO BE EXCEEDED IN DOMESTIC OR MUNICIPAL SUPPLY [1, 2]

Constituent	LIMITING CONCENTRATION IN MILLIGRAMS PER LITER Maximum Contaminant Level, mg/L
(c) Synthetics (cont'd.)	
1,2-Dibromo-3-chloropropane	0.0002
1,4-Dichlorobenzene	0.005
1,1-Dichloroethane	0.005
1,2-Dichloroethane	0.0005
cis-1,2-Dichloroethylene	0.006
trans-1,2-Dichloroethylene	0.01
1,1-Dichloroethylene	0.006
1,2-Dichloropropane	0.005
1,3-Dichloropropene	0.0005
Di(2-ethylhexyl)phthalate	0.004
* Ethylbenzene	0.680
Ethylene Dibromide	0.00002
Glyphosate	0.7
Heptachlor	0.00001
Heptachlor epoxide	0.00001
Molinate	0.02
Monochlorobenzene	0.030
Simazine	0.010
1,1,2,2-Tetrachloroethane	0.001
Tetrachloroethylene	0.005
* Thiobencarb	0.07
1,1,1-Trichloroethane	0.200
1,1,2-Trichloroethane	0.032
Trichloroethylene	0.005
Trichlorofluoromethane	0.15
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2
Vinyl Chloride	0.0005
* Xylenes [4]	1.750

1 Values included in this table have been summarized from California Code of Regulations, Title 22, Division 4, Chapter 15, Article 4, Sections 64435 (Tables 2 and 3) and 64444.5 (Table 5).

2 The values included in this table are maximum contaminant levels for the purposes of groundwater and surface water discharges and cleanup. Other water quality objectives (e.g., taste and odor thresholds or other secondary MCLs) and policies (e.g., State Water Board "Policy With Respect to Maintaining High Quality Waters in California") that are more stringent may apply.

3 Annual Average of Maximum Daily Air Temperature, °F Based on temperature data obtained for a minimum of five years. The average concentration of fluoride during any month, if added, shall not exceed the upper concentration. Naturally occurring fluoride concentration shall not exceed the maximum contaminant level.

4 Maximum Contaminant Level is for either a single isomer or the sum of the isomers.

* Constituents marked with an * also have taste and odor thresholds that are more stringent than the MCL listed. Taste and odor thresholds have also been developed for other constituents not listed in this table.

APPENDIX H

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY RECORD

Sequoia
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6 January, 2005

JAN 10 2005

Rob Saur
Environmental Resolutions (Exxon)
601 North McDowell Blvd.
Petaluma, CA 94954

RE: Former Exxon 7-0276
Work Order: MNL0521

Enclosed are the results of analyses for samples received by the laboratory on 12/16/04 17:35. The samples arrived at a temperature of 5 C. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Leticia Reyes

Leticia Reyes
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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Environmental Resolutions (Exxon) 601 North McDowell Blvd. Petaluma CA, 94954	Project: Former Exxon 7-0276 Project Number: 7-0276 Project Manager: Rob Saur	MNL0521 **Reported:** 01/06/05 17:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW2	MNL0521-01	Water	12/15/04 17:50	12/16/04 17:35
MW3	MNL0521-02	Water	12/15/04 18:40	12/16/04 17:35
MW4	MNL0521-03	Water	12/15/04 17:20	12/16/04 17:35
MW5	MNL0521-04	Water	12/15/04 18:20	12/16/04 17:35
MW8	MNL0521-05	Water	12/15/04 18:10	12/16/04 17:35
MW10	MNL0521-06	Water	12/15/04 12:05	12/16/04 17:35
MW12	MNL0521-07	Water	12/15/04 13:50	12/16/04 17:35
MW14	MNL0521-08	Water	12/15/04 15:00	12/16/04 17:35
MW15	MNL0521-09	Water	12/15/04 19:00	12/16/04 17:35

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Environmental Resolutions (Exxon)	Project: Former Exxon 7-0276	MNL0521
601 North McDowell Blvd.	Project Number: 7-0276	**Reported:**
Petaluma CA, 94954	Project Manager: Rob Saur	01/06/05 17:08

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2 (MNL0521-01) Water	**Sampled: 12/15/04 17:50**	**Received: 12/16/04 17:35**							
Ammonia as N	ND	0.25	mg/l	1	4L22031	12/22/04	12/22/04	EPA 350.1	
Nitrogen: Total	**1.1**	1.0	"	"	5A06021	01/06/05	01/06/05	SM 4500-N	
Nitrite+Nitrate as N	**1.1**	0.10	"	"	4L29014	12/17/04	12/17/04	EPA 300.0	
Phosphate (Ortho) as P	**0.17**	0.010	"	"	4L20012	12/17/04	12/17/04	EPA 365.2	
Total Phosphorous	**0.36**	0.010	"	"	4L30010	12/29/04	12/29/04	EPA 365.3	
Total Dissolved Solids	**440**	10	"	"	4L21024	12/17/04	12/17/04	EPA 160.1	
Sulfide	ND	1.0	"	"	4L21017	12/18/04	12/18/04	EPA 376.1	
MW3 (MNL0521-02) Water	**Sampled: 12/15/04 18:40**	**Received: 12/16/04 17:35**							
Ammonia as N	ND	0.25	mg/l	1	4L22031	12/22/04	12/22/04	EPA 350.1	
Nitrogen: Total	**1.2**	1.0	"	"	5A06021	01/06/05	01/06/05	SM 4500-N	
Nitrite+Nitrate as N	**0.42**	0.10	"	"	4L29014	12/17/04	12/17/04	EPA 300.0	
Phosphate (Ortho) as P	**0.12**	0.010	"	"	4L20012	12/17/04	12/17/04	EPA 365.2	
Total Phosphorous	**0.35**	0.010	"	"	4L30010	12/29/04	12/29/04	EPA 365.3	
Total Dissolved Solids	**400**	10	"	"	4L21024	12/17/04	12/17/04	EPA 160.1	
Sulfide	ND	1.0	"	"	4L21017	12/18/04	12/18/04	EPA 376.1	
MW4 (MNL0521-03) Water	**Sampled: 12/15/04 17:20**	**Received: 12/16/04 17:35**							
Ammonia as N	ND	0.25	mg/l	1	4L22031	12/22/04	12/22/04	EPA 350.1	
Nitrogen: Total	**1.8**	1.0	"	"	5A06021	01/06/05	01/06/05	SM 4500-N	
Nitrite+Nitrate as N	**1.8**	0.10	"	"	4L29014	12/17/04	12/17/04	EPA 300.0	
Phosphate (Ortho) as P	**0.28**	0.010	"	"	4L20012	12/17/04	12/17/04	EPA 365.2	
Total Phosphorous	**0.32**	0.010	"	"	4L30010	12/29/04	12/29/04	EPA 365.3	
Total Dissolved Solids	**330**	10	"	"	4L21024	12/17/04	12/17/04	EPA 160.1	
Sulfide	ND	1.0	"	"	4L21017	12/18/04	12/18/04	EPA 376.1	

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Environmental Resolutions (Exxon)	Project: Former Exxon 7-0276	MNL0521
601 North McDowell Blvd.	Project Number: 7-0276	**Reported:**
Petaluma CA, 94954	Project Manager: Rob Saur	01/06/05 17:08

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW5 (MNL0521-04) Water	**Sampled: 12/15/04 18:20**	**Received: 12/16/04 17:35**							
Ammonia as N	ND	0.25	mg/l	1	4L22031	12/22/04	12/22/04	EPA 350.1	
Nitrogen: Total	ND	1.0	"	"	5A06021	01/06/05	01/06/05	SM 4500-N	
Nitrite+Nitrate as N	**0.34**	0.10	"	"	4L29014	12/17/04	12/17/04	EPA 300.0	
Phosphate (Ortho) as P	**0.12**	0.010	"	"	4L20012	12/17/04	12/17/04	EPA 365.2	
Total Phosphorous	**0.30**	0.010	"	"	4L30010	12/29/04	12/29/04	EPA 365.3	
Total Dissolved Solids	**380**	10	"	"	4L21024	12/17/04	12/17/04	EPA 160.1	
Sulfide	**1.9**	1.0	"	"	4L21017	12/18/04	12/18/04	EPA 376.1	
MW8 (MNL0521-05) Water	**Sampled: 12/15/04 18:10**	**Received: 12/16/04 17:35**							
Ammonia as N	ND	0.25	mg/l	1	4L22031	12/22/04	12/22/04	EPA 350.1	
Nitrogen: Total	**1.1**	1.0	"	"	5A06021	01/06/05	01/06/05	SM 4500-N	
Nitrite+Nitrate as N	**1.1**	0.10	"	"	4L29014	12/17/04	12/17/04	EPA 300.0	
Phosphate (Ortho) as P	**0.31**	0.010	"	"	4L20012	12/17/04	12/17/04	EPA 365.2	
Total Phosphorous	**0.35**	0.010	"	"	4L30010	12/29/04	12/29/04	EPA 365.3	
Total Dissolved Solids	**710**	10	"	"	4L21024	12/17/04	12/17/04	EPA 160.1	
Sulfide	ND	1.0	"	"	4L21017	12/18/04	12/18/04	EPA 376.1	
MW10 (MNL0521-06) Water	**Sampled: 12/15/04 12:05**	**Received: 12/16/04 17:35**							
Ammonia as N	ND	0.25	mg/l	1	4L22031	12/22/04	12/22/04	EPA 350.1	
Nitrogen: Total	ND	1.0	"	"	5A06021	01/06/05	01/06/05	SM 4500-N	
Nitrite+Nitrate as N	**0.30**	0.10	"	"	4L29014	12/17/04	12/17/04	EPA 300.0	
Phosphate (Ortho) as P	**0.29**	0.010	"	"	4L20012	12/17/04	12/17/04	EPA 365.2	
Total Phosphorous	**0.32**	0.010	"	"	4L30010	12/29/04	12/29/04	EPA 365.3	
Total Dissolved Solids	**480**	10	"	"	4L21024	12/17/04	12/17/04	EPA 160.1	
Sulfide	ND	1.0	"	"	4L21017	12/18/04	12/18/04	EPA 376.1	

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Environmental Resolutions (Exxon)	Project: Former Exxon 7-0276	MNL0521
601 North McDowell Blvd.	Project Number: 7-0276	**Reported:**
Petaluma CA, 94954	Project Manager: Rob Saur	01/06/05 17:08

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW12 (MNL0521-07) Water	**Sampled: 12/15/04 13:50**	**Received: 12/16/04 17:35**							
Ammonia as N	ND	0.25	mg/l	1	4L22031	12/22/04	12/22/04	EPA 350.1	
Nitrogen: Total	ND	1.0	"	"	5A06021	01/06/05	01/06/05	SM 4500-N	
Nitrite+Nitrate as N	**0.82**	0.10	"	"	4L29014	12/17/04	12/17/04	EPA 300.0	
Phosphate (Ortho) as P	**0.11**	0.010	"	"	4L20012	12/17/04	12/17/04	EPA 365.2	
Total Phosphorous	**0.15**	0.010	"	"	4L30010	12/29/04	12/29/04	EPA 365.3	
Total Dissolved Solids	**310**	10	"	"	4L21024	12/17/04	12/17/04	EPA 160.1	
Sulfide	ND	1.0	"	"	4L21017	12/18/04	12/18/04	EPA 376.1	
MW14 (MNL0521-08) Water	**Sampled: 12/15/04 15:00**	**Received: 12/16/04 17:35**							
Ammonia as N	ND	0.25	mg/l	1	4L22031	12/22/04	12/22/04	EPA 350.1	
Nitrogen: Total	**1.1**	1.0	"	"	5A06021	01/06/05	01/06/05	SM 4500-N	
Nitrite+Nitrate as N	**1.1**	0.10	"	"	4L29014	12/17/04	12/17/04	EPA 300.0	
Phosphate (Ortho) as P	**0.30**	0.010	"	"	4L20012	12/17/04	12/17/04	EPA 365.2	
Total Phosphorous	**0.26**	0.010	"	"	4L30010	12/29/04	12/29/04	EPA 365.3	
Total Dissolved Solids	**370**	10	"	"	4L21024	12/17/04	12/17/04	EPA 160.1	
Sulfide	ND	1.0	"	"	4L21017	12/18/04	12/18/04	EPA 376.1	
MW15 (MNL0521-09) Water	**Sampled: 12/15/04 19:00**	**Received: 12/16/04 17:35**							
Ammonia as N	ND	0.25	mg/l	1	4L22031	12/22/04	12/22/04	EPA 350.1	
Nitrogen: Total	ND	1.0	"	"	5A06021	01/06/05	01/06/05	SM 4500-N	
Nitrite+Nitrate as N	**0.37**	0.10	"	"	4L29014	12/17/04	12/17/04	EPA 300.0	
Phosphate (Ortho) as P	**0.14**	0.010	"	"	4L20012	12/17/04	12/17/04	EPA 365.2	
Total Phosphorous	**0.87**	0.020	"	2	4L30010	12/29/04	12/29/04	EPA 365.3	
Total Dissolved Solids	**380**	10	"	1	4L21024	12/17/04	12/17/04	EPA 160.1	
Sulfide	ND	1.0	"	"	4L21017	12/18/04	12/18/04	EPA 376.1	

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Environmental Resolutions (Exxon) 601 North McDowell Blvd. Petaluma CA, 94954	Project: Former Exxon 7-0276 Project Number: 7-0276 Project Manager: Rob Saur	MNL0521 **Reported:** 01/06/05 17:08

Anions by EPA Method 300.0

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2 (MNL0521-01) Water	**Sampled: 12/15/04 17:50**	**Received: 12/16/04 17:35**							
Nitrate as NO3	**3.3**	0.50	mg/l	1	4L29014	12/17/04	12/17/04	EPA 300.0	
Sulfate as SO4	**25**	5.0	"	10	"	"	12/17/04	"	
MW3 (MNL0521-02) Water	**Sampled: 12/15/04 18:40**	**Received: 12/16/04 17:35**							
Nitrate as NO3	ND	0.50	mg/l	1	4L29014	12/17/04	12/17/04	EPA 300.0	
Sulfate as SO4	**4.7**	0.50	"	"	"	"	"	"	
MW4 (MNL0521-03) Water	**Sampled: 12/15/04 17:20**	**Received: 12/16/04 17:35**							
Nitrate as NO3	**6.2**	0.50	mg/l	1	4L29014	12/17/04	12/17/04	EPA 300.0	
Sulfate as SO4	**24**	5.0	"	10	"	"	12/17/04	"	
MW5 (MNL0521-04) Water	**Sampled: 12/15/04 18:20**	**Received: 12/16/04 17:35**							
Nitrate as NO3	ND	0.50	mg/l	1	4L29014	12/17/04	12/17/04	EPA 300.0	
Sulfate as SO4	**1.6**	0.50	"	"	"	"	"	"	
MW8 (MNL0521-05) Water	**Sampled: 12/15/04 18:10**	**Received: 12/16/04 17:35**							
Nitrate as NO3	**3.0**	0.50	mg/l	1	4L29014	12/17/04	12/17/04	EPA 300.0	
Sulfate as SO4	**17**	0.50	"	"	"	"	"	"	
MW10 (MNL0521-06) Water	**Sampled: 12/15/04 12:05**	**Received: 12/16/04 17:35**							
Nitrate as NO3	ND	0.50	mg/l	1	4L29014	12/17/04	12/17/04	EPA 300.0	HT-04
Sulfate as SO4	**19**	0.50	"	"	"	"	"	"	
MW12 (MNL0521-07) Water	**Sampled: 12/15/04 13:50**	**Received: 12/16/04 17:35**							
Nitrate as NO3	**2.1**	0.50	mg/l	1	4L29014	12/17/04	12/17/04	EPA 300.0	HT-03
Sulfate as SO4	**19**	0.50	"	"	"	"	"	"	

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Environmental Resolutions (Exxon)	Project: Former Exxon 7-0276	MNL0521
601 North McDowell Blvd.	Project Number: 7-0276	**Reported:**
Petaluma CA, 94954	Project Manager: Rob Saur	01/06/05 17:08

Anions by EPA Method 300.0

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW14 (MNL0521-08) Water	**Sampled: 12/15/04 15:00**	**Received: 12/16/04 17:35**							
Nitrate as NO3	**2.8**	0.50	mg/l	1	4L29014	12/17/04	12/17/04	EPA 300.0	HT-03
Sulfate as SO4	**33**	5.0	"	10	"	"	12/17/04	"	
MW15 (MNL0521-09) Water	**Sampled: 12/15/04 19:00**	**Received: 12/16/04 17:35**							
Nitrate as NO3	ND	0.50	mg/l	1	4L29014	12/17/04	12/17/04	EPA 300.0	
Sulfate as SO4	**8.2**	0.50	"	"	"	"	"	"	

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Environmental Resolutions (Exxon) 601 North McDowell Blvd. Petaluma CA, 94954	Project: Former Exxon 7-0276 Project Number: 7-0276 Project Manager: Rob Saur	MNL0521 **Reported:** 01/06/05 17:08

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2 (MNL0521-01) Water	**Sampled: 12/15/04 17:50**	**Received: 12/16/04 17:35**							
Total Kjeldahl Nitrogen	ND	0.50	mg/l	1	4120512	12/27/04	12/29/04	EPA 351.2	
MW3 (MNL0521-02) Water	**Sampled: 12/15/04 18:40**	**Received: 12/16/04 17:35**							
Total Kjeldahl Nitrogen	**0.76**	0.50	mg/l	1	4120512	12/27/04	12/29/04	EPA 351.2	
MW4 (MNL0521-03) Water	**Sampled: 12/15/04 17:20**	**Received: 12/16/04 17:35**							
Total Kjeldahl Nitrogen	ND	0.50	mg/l	1	4120512	12/27/04	12/29/04	EPA 351.2	
MW5 (MNL0521-04) Water	**Sampled: 12/15/04 18:20**	**Received: 12/16/04 17:35**							
Total Kjeldahl Nitrogen	ND	0.50	mg/l	1	4120512	12/27/04	12/29/04	EPA 351.2	
MW8 (MNL0521-05) Water	**Sampled: 12/15/04 18:10**	**Received: 12/16/04 17:35**							
Total Kjeldahl Nitrogen	ND	0.50	mg/l	1	4120512	12/27/04	12/29/04	EPA 351.2	
MW10 (MNL0521-06) Water	**Sampled: 12/15/04 12:05**	**Received: 12/16/04 17:35**							
Total Kjeldahl Nitrogen	ND	0.50	mg/l	1	4120512	12/27/04	12/29/04	EPA 351.2	
MW12 (MNL0521-07) Water	**Sampled: 12/15/04 13:50**	**Received: 12/16/04 17:35**							
Total Kjeldahl Nitrogen	ND	0.50	mg/l	1	4120512	12/27/04	12/29/04	EPA 351.2	
MW14 (MNL0521-08) Water	**Sampled: 12/15/04 15:00**	**Received: 12/16/04 17:35**							
Total Kjeldahl Nitrogen	ND	0.50	mg/l	1	4120512	12/27/04	12/29/04	EPA 351.2	
MW15 (MNL0521-09) Water	**Sampled: 12/15/04 19:00**	**Received: 12/16/04 17:35**							
Total Kjeldahl Nitrogen	ND	0.50	mg/l	1	4120512	12/27/04	12/29/04	EPA 351.2	

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Environmental Resolutions (Exxon) 601 North McDowell Blvd. Petaluma CA, 94954	Project: Former Exxon 7-0276 Project Number: 7-0276 Project Manager: Rob Saur	MNL0521 **Reported:** 01/06/05 17:08

Dissolved Volatile Gases by Method RSK 175 Modified

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2 (MNL0521-01) Water	**Sampled: 12/15/04 17:50**	**Received: 12/16/04 17:35**							
Methane	ND	0.0010	mg/l	1	4120327	12/23/04	12/23/04	RSK 175	
MW3 (MNL0521-02) Water	**Sampled: 12/15/04 18:40**	**Received: 12/16/04 17:35**							
Methane	**2.8**	0.020	mg/l	20	4120327	12/23/04	12/23/04	RSK 175	
MW4 (MNL0521-03) Water	**Sampled: 12/15/04 17:20**	**Received: 12/16/04 17:35**							
Methane	ND	0.0010	mg/l	1	4120327	12/23/04	12/23/04	RSK 175	
MW5 (MNL0521-04) Water	**Sampled: 12/15/04 18:20**	**Received: 12/16/04 17:35**							
Methane	**1.6**	0.020	mg/l	20	4120327	12/23/04	12/23/04	RSK 175	
MW8 (MNL0521-05) Water	**Sampled: 12/15/04 18:10**	**Received: 12/16/04 17:35**							
Methane	ND	0.0010	mg/l	1	4120327	12/23/04	12/23/04	RSK 175	
MW10 (MNL0521-06) Water	**Sampled: 12/15/04 12:05**	**Received: 12/16/04 17:35**							
Methane	**0.97**	0.010	mg/l	10	4120327	12/23/04	12/23/04	RSK 175	
MW12 (MNL0521-07) Water	**Sampled: 12/15/04 13:50**	**Received: 12/16/04 17:35**							
Methane	ND	0.0010	mg/l	1	4120327	12/23/04	12/23/04	RSK 175	
MW14 (MNL0521-08) Water	**Sampled: 12/15/04 15:00**	**Received: 12/16/04 17:35**							
Methane	ND	0.0010	mg/l	1	4120327	12/23/04	12/23/04	RSK 175	
MW15 (MNL0521-09) Water	**Sampled: 12/15/04 19:00**	**Received: 12/16/04 17:35**							
Methane	ND	0.0010	mg/l	1	4120327	12/23/04	12/23/04	RSK 175	

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Environmental Resolutions (Exxon) 601 North McDowell Blvd. Petaluma CA, 94954	Project: Former Exxon 7-0276 Project Number: 7-0276 Project Manager: Rob Saur	MNL0521 **Reported:** 01/06/05 17:08

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4L20012 - General Preparation										
Blank (4L20012-BLK1)				Prepared & Analyzed: 12/17/04						
Phosphate (Ortho) as P	ND	0.005	mg/l							
LCS (4L20012-BS1)				Prepared & Analyzed: 12/17/04						
Phosphate (Ortho) as P	0.225	0.010	mg/l	0.250		90	80-120			
Matrix Spike (4L20012-MS1)		Source: MNL0521-07		Prepared & Analyzed: 12/17/04						
Phosphate (Ortho) as P	0.354	0.010	mg/l	0.250	0.11	98	75-125			
Matrix Spike Dup (4L20012-MSD1)		Source: MNL0521-07		Prepared & Analyzed: 12/17/04						
Phosphate (Ortho) as P	0.364	0.010	mg/l	0.250	0.11	102	75-125	3	20	
Batch 4L21017 - General Preparation										
Blank (4L21017-BLK1)				Prepared & Analyzed: 12/18/04						
Sulfide	ND	0.60	mg/l							
LCS (4L21017-BS1)				Prepared & Analyzed: 12/18/04						
Sulfide	9.30	1.0	mg/l	9.95		93	80-120			
Matrix Spike (4L21017-MS1)		Source: MNL0521-01		Prepared & Analyzed: 12/18/04						
Sulfide	10.7	1.0	mg/l	9.95	ND	108	80-120			
Matrix Spike Dup (4L21017-MSD1)		Source: MNL0521-01		Prepared & Analyzed: 12/18/04						
Sulfide	10.9	1.0	mg/l	9.95	ND	110	80-120	2	20	
Batch 4L21024 - General Preparation										
Blank (4L21024-BLK1)				Prepared & Analyzed: 12/17/04						
Total Dissolved Solids	ND	5	mg/l							

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Environmental Resolutions (Exxon)	Project: Former Exxon 7-0276	MNL0521
601 North McDowell Blvd.	Project Number: 7-0276	**Reported:**
Petaluma CA, 94954	Project Manager: Rob Saur	01/06/05 17:08

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4L21024 - General Preparation										
LCS (4L21024-BS1)				Prepared & Analyzed: 12/17/04						
Total Dissolved Solids	505	10	mg/l	500		101	96-106			
Matrix Spike (4L21024-MS1)	Source: MNL0507-01			Prepared & Analyzed: 12/17/04						
Total Dissolved Solids	860	20	mg/l	500	330	106	80-120			
Matrix Spike Dup (4L21024-MSD1)	Source: MNL0507-01			Prepared & Analyzed: 12/17/04						
Total Dissolved Solids	850	20	mg/l	500	330	104	80-120	1	20	
Batch 4L22031 - General Preparation										
Blank (4L22031-BLK1)				Prepared & Analyzed: 12/22/04						
Ammonia as N	ND	0.13	mg/l							
LCS (4L22031-BS1)				Prepared & Analyzed: 12/22/04						
Ammonia as N	10.5	0.25	mg/l	10.0		105	90-110			
Matrix Spike (4L22031-MS1)	Source: MNL0521-01			Prepared & Analyzed: 12/22/04						
Ammonia as N	10.5	0.25	mg/l	10.0	ND	105	90-110			
Matrix Spike Dup (4L22031-MSD1)	Source: MNL0521-01			Prepared & Analyzed: 12/22/04						
Ammonia as N	10.5	0.25	mg/l	10.0	ND	105	90-110	0	20	
Batch 4L29014 - General Preparation										
Blank (4L29014-BLK1)				Prepared & Analyzed: 12/17/04						
Nitrite+Nitrate as N	ND	0.050	mg/l							

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Environmental Resolutions (Exxon)	Project: Former Exxon 7-0276	MNL0521
601 North McDowell Blvd.	Project Number: 7-0276	**Reported:**
Petaluma CA, 94954	Project Manager: Rob Saur	01/06/05 17:08

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4L29014 - General Preparation										
LCS (4L29014-BS1)				Prepared & Analyzed: 12/17/04						
Nitrite+Nitrate as N	3.60	0.10	mg/l	3.78		95	83-117			
Matrix Spike (4L29014-MS1)		Source: MNL0521-06		Prepared & Analyzed: 12/17/04						
Nitrite+Nitrate as N	38.0	1.0	mg/l	37.8	0.30	100	83-117			
Matrix Spike Dup (4L29014-MSD1)		Source: MNL0521-06		Prepared & Analyzed: 12/17/04						
Nitrite+Nitrate as N	37.2	1.0	mg/l	37.8	0.30	98	83-117	2	3	
Batch 4L30010 - General Preparation										
Blank (4L30010-BLK1)				Prepared & Analyzed: 12/29/04						
Total Phosphorous	ND	0.005	mg/l							
LCS (4L30010-BS1)				Prepared & Analyzed: 12/29/04						
Total Phosphorous	0.258	0.010	mg/l	0.250		103	96-114			
Matrix Spike (4L30010-MS1)		Source: MNL0521-01		Prepared & Analyzed: 12/29/04						
Total Phosphorous	0.600	0.020	mg/l	0.250	0.36	96	96-114			
Matrix Spike Dup (4L30010-MSD1)		Source: MNL0521-01		Prepared & Analyzed: 12/29/04						
Total Phosphorous	0.608	0.020	mg/l	0.250	0.36	99	96-114	1	17	

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Environmental Resolutions (Exxon)	Project: Former Exxon 7-0276	MNL0521
601 North McDowell Blvd.	Project Number: 7-0276	**Reported:**
Petaluma CA, 94954	Project Manager: Rob Saur	01/06/05 17:08

Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4L29014 - General Preparation										
Blank (4L29014-BLK1)				Prepared & Analyzed: 12/17/04						
Sulfate as SO4	ND	0.25	mg/l							
Nitrate as NO3	ND	0.25	"							
LCS (4L29014-BS1)				Prepared & Analyzed: 12/17/04						
Sulfate as SO4	9.55	0.50	mg/l	10.0		96	90-110			
Nitrate as NO3	9.10	0.50	"	10.0		91	90-110			
Matrix Spike (4L29014-MS1)		**Source: MNL0521-06**		Prepared & Analyzed: 12/17/04						
Nitrate as NO3	96.9	5.0	mg/l	100	0.48	96	80-124			
Sulfate as SO4	106	5.0	"	100	19	87	72-140			
Matrix Spike Dup (4L29014-MSD1)		**Source: MNL0521-06**		Prepared & Analyzed: 12/17/04						
Sulfate as SO4	102	5.0	mg/l	100	19	83	72-140	4	10	
Nitrate as NO3	95.0	5.0	"	100	0.48	95	80-124	2	10	

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Environmental Resolutions (Exxon)	Project: Former Exxon 7-0276	MNL0521
601 North McDowell Blvd.	Project Number: 7-0276	**Reported:**
Petaluma CA, 94954	Project Manager: Rob Saur	01/06/05 17:08

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120512 - General Preparation										
Blank (4120512-BLK1)				Prepared: 12/27/04 Analyzed: 12/29/04						
Total Kjeldahl Nitrogen	ND	0.25	mg/l							
LCS (4120512-BS1)				Prepared: 12/27/04 Analyzed: 12/29/04						
Total Kjeldahl Nitrogen	4.49	0.50	mg/l	5.00		90	80-120			
Matrix Spike (4120512-MS1)		Source: P412315-01		Prepared: 12/27/04 Analyzed: 12/29/04						
Total Kjeldahl Nitrogen	4.85	0.50	mg/l	5.00	0.43	88	75-125			
Matrix Spike Dup (4120512-MSD1)		Source: P412315-01		Prepared: 12/27/04 Analyzed: 12/29/04						
Total Kjeldahl Nitrogen	5.23	0.50	mg/l	5.00	0.43	96	75-125	8	20	

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Environmental Resolutions (Exxon)	Project: Former Exxon 7-0276	MNL0521
601 North McDowell Blvd.	Project Number: 7-0276	**Reported:**
Petaluma CA, 94954	Project Manager: Rob Saur	01/06/05 17:08

Dissolved Volatile Gases by Method RSK 175 Modified - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120327 - RSK 175										
Blank (4120327-BLK1)				Prepared & Analyzed: 12/23/04						
Methane	ND	0.00056	mg/l							
LCS (4120327-BS1)				Prepared & Analyzed: 12/23/04						
Methane	0.0823	0.0010	mg/l	0.0942		87	50-150			
Matrix Spike (4120327-MS1)		**Source: S412469-01**		Prepared & Analyzed: 12/23/04						
Methane	0.0713	0.0010	mg/l	0.0942	ND	76	50-150			
Matrix Spike Dup (4120327-MSD1)		**Source: S412469-01**		Prepared & Analyzed: 12/23/04						
Methane	0.0664	0.0010	mg/l	0.0942	ND	70	50-150	7	20	

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Environmental Resolutions (Exxon) 601 North McDowell Blvd. Petaluma CA, 94954	Project: Former Exxon 7-0276 Project Number: 7-0276 Project Manager: Rob Saur	MNL0521 **Reported:** 01/06/05 17:08

Notes and Definitions

HT-04	This sample was analyzed beyond the EPA recommended holding time.
HT-03	This sample was extracted beyond the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference